

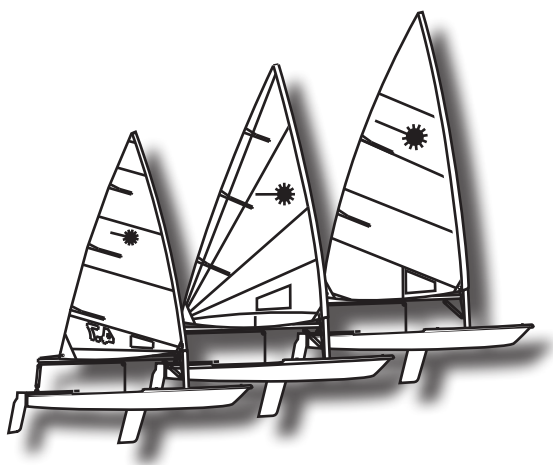
# International Laser Class Association



## 2013 Handbook

Constitution and Class Rules





[www.laserinternational.org](http://www.laserinternational.org)

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# International Laser Class Association 2013 Handbook

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This Handbook is published every year by the International Laser Class Association (ILCA) and distributed to class members throughout the world. Any changes to the information contained in this Handbook, including changes to the class rules and By-Laws, are published on the ILCA web site [www.laserinternational.org](http://www.laserinternational.org) and in LaserWorld, the international magazine of the class that is also distributed to Laser class members.

If you are not an ILCA member consider joining us by contacting your national Laser Association through the contacts list on our website.



**Jeff Martin** ILCA World Executive Secretary

© Thom Touw



# From our President

In the forty-plus years of its existence the Laser has grown to hold a unique position in the sport of sailing allowing it to appeal to a broad range of sailors. At one end of the spectrum, as an Olympic Class, the Laser represents the pinnacle of the sport of sailing with a proud history that includes almost all of the world's top sailors over the past four decades. The advent of the Laser 4.7 has cemented the Laser's role as the youth training boat of choice, with a natural progression in rig size that grows with the sailor, starting with the 4.7, continuing to the Radial and then to the larger Standard rig. Finally, at the other end of the spectrum, the Laser remains the boat of choice for just plain fun – from racing in club level fleets, to racing on the Master's circuit, to simply just enjoying an afternoon's day sail on whatever pond happens to be available. No other sailboat can lay claim to satisfying such a broad range of interest!



Obviously, the primary keys to the success of the Laser are the thousands and thousands of class association members worldwide, many of whom enjoy Laser sailing as a lifestyle, devoting countless hours of their time and energy to everything from organizing local events near their homes to volunteering time towards the administration of the class association.

Also key to the success of the Laser is the strict one design principle where the racing is about the best sailor and not the best boat. The ILCA plays several essential roles in this regard. First, the ILCA works with the builders to ensure strict adherence to the Laser Construction Manual, making sure that no matter where in the world the boats are built they are all identical. In addition, the ILCA maintains a strict set of Class Rules built around the philosophy of not allowing any changes which would affect the performance of the boat. Finally, the ILCA works hard to maintain a global presence to help Laser sailors anywhere in the world help find other Laser sailors.

In the pages of this handbook you will find an enormous amount of useful information:

- ★ The Laser Class Rules to help you understand what you can (and can't) do to rig your boat for racing,
- ★ Contact information for District Associations, Class Measurers, Class Officers and, of course, the ILCA office,
- ★ ILCA guidelines and policies for major championship events,
- ★ The ILCA Constitution to better understand the organization of the association,
- ★ Useful hints and tricks gleaned from years of experience,
- ★ And, finally, a list of all champions from ILCA regional and world championship events to help provide incentive!

I hope you find this handbook as useful a resource for Laser sailing as I do!

A handwritten signature in black ink that reads "Tracy Usher".

**Tracy Usher** ILCA President



© Balatonfüredi Yacht Club

# Go Sailing, Go Racing

Sailing is great but Laser sailing is a little bit more special. You are totally in control and when you want a challenge you go out in stronger and stronger winds until you are flying across waves and through spray, experiencing the most exhilarating ride of your life. The joy of going Laser sailing is what keeps the class the most popular boat of its type in the world.

If you need a little help getting used to the boat there are books about Laser sailing and racing (see the Laser Library on our website: [www.laserinternational.org](http://www.laserinternational.org)) but for many the best way to get to know your boat better is to go racing. It also means you can meet like-minded people.

Contact the Laser Association in your country for details about how racing is organised and where the nearest group of Laser sailors are (see *page 13*) or check out the contact list on our website. Over 90% of Laser racing takes place over a couple of hours in an evening or at a weekend. Most racing takes place from sailing or water sports clubs and, like golf, you are guaranteed to see a full range of experience at the local club where beginners and experts are welcome. Your club may organise training weekends and visiting coaches and you will certainly benefit from talking to and watching others.

After a while you may wish to have a weekend or week away sailing at a different venue against other Laser sailors. This could be 50 or 500 kilometres away but for sure you will find other places to race. Your national Laser Association can help you.



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## YOUTH AND MASTERS (over 35)

In many countries there are special extra events organised specifically for different Laser rigs (Laser Standard, Laser Radial and Laser 4.7) and for youth and master sailors. Some countries organise extra National Championships for these rigs and age groups.

For sailors who do not like to travel, the National Championship is often the highlight of the annual racing calendar. These events are open to all comers and all levels of skill. You will experience the excitement of racing in a large fleet of between 30 and 100+ Laser sailors. Best of all you need no qualifications, except being able to handle your boat in up to 20 knots and having enjoyed at least 10 club races in your Laser. You probably will not become national champion (at least not at the first attempt) but you will certainly have a great time.

With the exception of most World and European Championships, all Laser racing is open and there are many national and international regattas you can go to with only a limited amount of experience.

**Contact your Laser Association for a chat about what is available. Check out the contact list on our website at [www.laserinternational.org](http://www.laserinternational.org).**



# The Laser Formula

## A choice of rigs for different weight sailors - 3 boats in one

- *Are your children reaching the age when they want to go sailing in a Laser by themselves?*
- *Does your husband or wife fancy the occasional sail in your Laser?*
- *When you drive 2 hours to get to the water have you found it is too windy for you to go sailing?*
- *Maybe you are too light to sail the Laser with the Standard rig?*

The **Laser Formula** is the answer to all these questions. By changing only the sail and lower mast the Laser can be sailed comfortably in all wind conditions and provide exciting but controlled sailing for any sailor weighing as little as 35 kg. The Laser Formula is a 3 rig option that has been adopted by a number of sailing schools as a simple and economical way to keep sailing in all winds and reduce the amount of 'down time'.

The **Laser 4.7** uses a short pre-bent lower mast to maintain a balanced helm and a sail area that is 35% smaller than the Laser Standard. It is ideal for learning to sail or for the lighter weight sailor graduating from Optimist.

The **Laser Radial** is the next step up. It uses a more flexible and slightly shorter lower mast together with a sail area 18% smaller than the Laser Standard. The Laser Radial has a large following with national and international regattas and World Men's, Women's & Youth Championships attracting as many countries and competitors as the Laser Standard Rig. As well as a strong following amongst lighter weight sailors, the Laser Radial is also used for youth, women and masters racing. Many countries support a full Laser Radial Youth programme and in a survey of national yachting authorities conducted by the International Sailing Federation the majority replied that the Laser Radial was their preferred youth boat.

The **Laser Standard** can be sailed by any weight in light winds, but as the wind increases it is better suited to higher sailor weights.

Apart from the strong second hand market in Lasers with the Laser Standard rig, there is an even stronger second hand market for Laser Radial and Laser 4.7 lower mast and sails as a separate package from the hull.

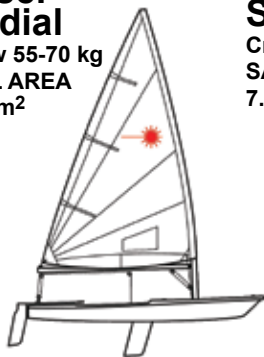
### Laser 4.7

Crew 35-55 kg  
SAIL AREA  
4.70m<sup>2</sup>



### Laser Radial

Crew 55-70 kg  
SAIL AREA  
5.76m<sup>2</sup>



### Laser Standard

Crew 60 kg +  
SAIL AREA  
7.06m<sup>2</sup>



## INFORMATION AND LASER CLASS RULES

The ILCA website features an online search facility to enable you to find detailed information about ILCA and the Laser Class Rules. Please visit [www.laserinternational.org](http://www.laserinternational.org).

# ILCA Age Policy and Useful Information

## WORLD CHAMPIONSHIPS - general

As a result of high demand for places at major Championships, the majority of Laser World Championships and European Championships are allocated place events. For further information see [www.laserinternational.org](http://www.laserinternational.org).

## YOUTH AGE CHAMPIONSHIP POLICY

The Laser is widely used as a youth training and racing boat. The chart below illustrates a typical progression and suggested age limits for prizes at youth events. The stepped progression maintains interest throughout youth years for different rates of growth.

Age*	12	13	14	15	16	17	18	19	20
Birth Year**	2001	2000	1999	1998	1997	1996	1995	1994	1993
Laser 4.7***	UNDER 16				UNDER 18				
Laser Radial Youth				UNDER 17		UNDER 19			
Laser Radial Women						UNDER 21			
Laser Standard Men						UNDER 21			

\* The age the competitor **becomes** in the year of the Championship

\*\* The year during which the competitor must have been born **FOR A 2013 CHAMPIONSHIP** using this guide

\*\*\* Lower age group upper limit increased from under 15 to under 16 in October 2008.

Within these age limits there will be a wide variation in weight for a given age, therefore some overlap is necessary. The age bands for each rig show suggested main prize categories even when the total entry for a rig is starting together. In larger events, prizes for more age groups within the band limits should be awarded to generate even greater interest.

In general, ILCA recommends that youth events shall be held in Laser 4.7 and Laser Radial rigs. ILCA also recommends an "Under 21" category (17 - 20 years old in the year of the championship) for the Laser Standard Men and Laser Radial Women categories.

In 2013 ILCA will organise Youth World Championships in the Laser Radial and Laser 4.7, following the above age limits, and an "Under 21" World Championship for the Laser Standard Men and an "Under 21" World Championship for the Laser Radial Women.

Competitors in Youth World Championships will normally be in the upper age limits and will be of a high standard. They should be experienced in big fleets and able to sail well in waves and wind speeds of up to 25 knots. Entering a World Championship without experience and ability in all racing conditions is not recommended, especially if a sailor is not heavy or strong enough to handle the rig.

## WOMEN - policy

ILCA's recommended policy is that Women's championships should be held in the Laser Radial.

For identification purposes, sails used at certain women's events shall carry a red rhombus above the top batten pocket on both sides, see class rule 4(g).

Red rhombi shall conform with ILCA Rules, Part Two, section 4(g)(i) RED RHOMBUS.

## LASER 4.7 - policy

Although the Laser 4.7 is used primarily as a youth class, in some countries it may be appropriate to run "open" Laser 4.7 regattas for lighter weight adults. At these events, separate category prizes for youth and women should also be considered, in a format similar to the Laser Radial.

Further information about events can be obtained from [www.laserinternational.org](http://www.laserinternational.org)



## LASER RADIAL - policy

With the exception of World and some continental championships all Laser Radial regattas should be mixed gender and ages. However, if there are two or more categories (e.g. category men, category women) with 35 or more sailors in each, then these categories should race separately and have separate prizes. Where there are separate prize categories, each category should be identified by either a masthead streamer or a colour band on the mast. When two or more categories race in one fleet, then the individual category results should be extracted from the overall results without rescoring.



## MASTERS - policy, age limits and identification

ILCA's recommended policy for Masters events is that the sailor must reach the ages given in Fig. 1 (below), which shall be defined in the Notice of Race. The following colours are recommended for identification stickers on the mast below the gooseneck so that different category masters know who they are sailing with when they sail in mixed fleets. Overall prizes will be awarded in accordance with the ILCA Honour Award By-Law in each category.

Apprentice - GREEN, Master - RED, Grand Master - BLUE, Great Grand Master - YELLOW.

Fig. 1

Age Group	Masters Category
35 to 44	Laser Standard Apprentice Master Laser Radial Apprentice Master
45 to 54	Laser Standard Master Laser Radial Master
55 and over	Laser Standard Grand Master
55 to 64	Laser Radial Grand Master
65 and over	Laser Radial Great Grand Master

## HANDICAP NUMBERS

Sometimes we get asked: "What are the handicap numbers for Lasers in mixed class racing?" The numbers used by the Royal Yachting Association (GBR) in their Portsmouth Handicap system are:

**Laser 1080**

**Laser Radial 1104**

**Laser 4.7 1175**

The numbers can be used for handicapping different Laser rigs within a mixed fleet. To use the numbers, convert the elapsed time into seconds. Divide the elapsed time by the handicap number and multiply by 1000 to achieve a corrected time.

The handicap numbers work best on races around 100 minutes long. Further information on Portsmouth Numbers can be obtained on the internet at: [www.rya.org.uk](http://www.rya.org.uk)

## Personal Handicaps

The handicap numbers take into account the difference in boat speed as a result of the different size rigs. The handicap numbers take no account of an individual's ability. If the finishes are timed, a personal factor can be applied to the handicap number so that each person has a Personal Handicap Number.

The handicap numbers are based on race times. In a theoretical race, where a Laser finished in 60 minutes, a Laser Radial should finish in 61 minutes 17 seconds if all the sailors were the same standard and made the same mistakes! A Personal Handicap can be introduced by adjusting the handicap numbers.

For example, changing the Laser Radial handicap number from 1101 to a Personal Handicap of 1102 would mean that in the same race the Personal Handicap would give an extra 4 seconds advantage on someone sailing a Laser Radial without a Personal Handicap.

Personal Handicaps can be fixed for a set number of races or adjusted in any number of ways based on the performance of the last race. For example, if you win a race you are handicapped by 30 seconds in the next race. Second could be handicapped by 15 seconds etc. Similarly, the last placed boat could be given a handicap advantage of 1 minute, second to last 30 seconds etc.



A simple time or place penalty system like this can also be used instead of handicap numbers (see fleet handicaps on our website at: [www.laserinternational.org](http://www.laserinternational.org)).

It is best to keep race by race changes simple and restrict changes to a maximum of the first two and last two places.

***If you decide on a Personal Handicap System don't forget someone has to manage it so KEEP IT SIMPLE.***

## COACHING AND COACHES

ILCA helps in the organisation of Training Weeks for racing sailors throughout the world. Demand for this type of help is increasing. We hold a register of Laser sailors who are experienced at International regattas and who are able and interested to give some time to run Race Training Courses in other countries (Coaches). Laser Coaches do not normally get paid for their work but they get their travel, meals and accommodation paid for plus a small expense allowance.

Coaching can be a rewarding experience and an opportunity to visit countries you might not normally get a chance to visit. If you are interested in being a Laser Coach please write to the International Office with FULL details of your sailing experience, race results, coaching experience in Lasers and other classes, age, languages, address, including business and home phone, fax and e-mail. Please also include references.

If you would like the services of a Laser Coach on the above basis please contact ILCA International Office with at least 6 months notice. Please also keep in mind that all the Coaches have their own busy sailing season and therefore courses should be planned at a 'quiet' time of the year to give ILCA the best possible chance of finding a Coach.

## INTERNATIONAL EVENTS CALENDAR

ILCA maintains an international events calendar of regattas that would normally attract international entries. Using Google Calendar, the list is updated on a regular basis and usually holds details of approximately 200 regattas. The calendar can also be integrated into your own calendar, so you can receive event updates automatically.

Event details are available on the ILCA website: [www.laserinternational.org](http://www.laserinternational.org).

Please advise the ILCA office of any international Laser regattas in your region at least 3 months in advance. Early notification of events will ensure maximum publicity and avoid clashes with other events.

## ADVERTISING/SPONSORSHIP

Information about advertising/sponsorship can be found on the ILCA website ([www.laserinternational.org](http://www.laserinternational.org)) by clicking on the "Information" tab and choosing "Regulations 20: Advertising Code" from the sub-menu.

## ANTI-DOPING

The latest information about the ISAF Anti-Doping Code can be found on the ISAF website: <http://www.sailing.org/documents/regulations/isafregulations/index.php>

## REGIONAL CHAMPIONSHIPS

ILCA must be informed of a Regional (Continental) Championship 18 months in advance. Before the dates, venue and notice of race of such a championship are published, the venue and dates must be submitted to the World Council for approval. Before giving such approval the World Council shall consider the requirements of the Regional Championship By-Law and any other aspect, which may affect the quality and fairness of the competition.

## POLICY FOR TRANSLATING THE HANDBOOK

It is possible to translate the ILCA Handbook into your native language.

If you are interested in translating the Handbook, please email your translation to ILCA at [office@laserinternational.org](mailto:office@laserinternational.org). Once the translation has been approved, we will make the translated version available on our website.

If you have any questions or would like to translate the Handbook, please contact the ILCA office.

# What is the International Laser Class Association (ILCA)?

The International Laser Class Association (ILCA) is like a worldwide sailing club specifically for owners of Laser sailboats and people interested in the Laser. Like most sailing clubs it is run by volunteer Laser sailors who employ staff to run a dedicated Laser office.

For easier administration the Laser Association is divided into 4 main levels of activity, each with elected volunteers:

**FLEETS** - normally sailing clubs or small groups of Laser sailors sailing together on a local basis. Fleet activities are normally co-ordinated by a Fleet Captain who has been elected by the Laser sailors in that Fleet.

**DISTRICTS** - In North America and Australia these are single states or an amalgamation of states. For the rest of the world, District boundaries are normally the same as national boundaries, although occasionally small countries either amalgamate with other small countries or get looked after by larger countries. District activities are co-ordinated by a committee, elected by Laser sailors at the District's annual District general meeting.

**REGIONS** - these are a number of districts grouped together on a continental basis. Regional activities are co-ordinated by officers elected by the District representatives.

**INTERNATIONAL (World Council)** - this is like the board of directors of a company. It is responsible for directing the work of the association and maintaining the objects of the association as they are expressed in the association's constitution. The World Council consists of the President and Vice President, the Chairman of each region, the Executive Secretary appointed by the Council and 2 representatives of the Laser manufacturers. Our World Council is truly international, currently consisting of officers from Australia, Brazil, France, Switzerland, UK and USA - all are active sailors and between them have a wealth of experience spread over all levels of sailing.

The contact details of all class officers from District to World Council level can be found on the website at [www.laserinternational.org](http://www.laserinternational.org). Please do not hesitate to contact any officer if you have any Laser problems or need help or information about the Laser or Laser Association.

# ILCA Goals

The objects expressed in the constitution of the association are:

- To enhance the enjoyment of Laser sailboats.
- To provide a means of exchanging information among Laser sailors throughout the world.
- To promote and encourage Laser class racing in all countries under uniform rules.
- To promote and encourage the sporting and recreational aspects of sailing.

## ILCA's Work

For the majority of members, the work done by class officers is not directly apparent, but it is vitally important for the continuation of our class and the very existence of the Laser sailboat as we know it. It is all too easy to go to a dealer, buy a Laser, and go sailing with lots of other identical Lasers without even thinking about how it all happened or if it will continue to happen!

The existence of a strong International Laser Association is important to all Laser owners, whether they are occasional weekend sailors or aiming for an Olympic gold medal. If you doubt this, think back to the reasons why you were originally attracted to the Laser:

### A good design?

ILCA cannot take credit for that. However, ILCA plays an important part in protecting that design and making sure it isn't devalued by manufacturing changes. The construction of the Laser is controlled by an agreement between the manufacturers, ILCA and the ISAF, and by the class rules. Monitoring this agreement is an important part of ILCA's work.

### Strict one design?

When the Laser was first introduced a set of rules were drafted which, at the time, were very different to other existing classes. These other class rules listed a number of prohibitions, which led to developers trying out new ideas if the idea was not specifically prohibited. The result of this is that quite often older boats became outdated with a subsequent loss in value. The Laser rules are different in that they prohibit ANY changes unless the rules specifically allow a change. This means that a 10 year old Laser is the same as a brand new one and, as a result, holds its resale value far better. ILCA plays an important part in keeping the Laser rules strictly one design by preventing changes and providing a measurement structure that maintains the one design.

### Good racing?

The International Office of ILCA is responsible for organising world and other major championships for the class. Of course these only directly interest a small group of sailors. However, the organisation of top quality championships has an effect on all sailors. The qualification and training for major championships can only take place at lower level regattas. This results in increased participation at lower levels, which in turn attracts more people to the class. Standards that are set in sailing, racing and organisation at international level filter down throughout our organisation.

### Good magazines, website and communication?

The amount and quality of literature available to a Laser sailor is high compared with most other classes. ILCA's *LaserWorld* magazine is prepared by the International Office and distributed throughout the world to supplement the many and various publications produced by the Districts. A truly international magazine keeps everyone in touch with class activities and helps the class to develop evenly throughout the world. This is one of our greatest strengths. ILCA also has its own website ([www.laserinternational.org](http://www.laserinternational.org)) with regularly updated news items, information and links to other sites. In many other classes a lack of international communication has caused groups of sailors in different countries to become isolated and the class in those countries to become extinct. This fall-off in activity eventually affects the class in established countries, leaving only the truly international classes well supported.

## Low price?

Mass production keeps the price of the Laser relatively low. An active Class Association encourages more people into the class, therefore making mass production viable.

## Activity

Whatever reasons made you become a Laser owner, they are all a result of ACTIVITY. The Laser Association plays an important part in promoting and maintaining this activity and keeping the Laser at the top of the sailing world for both Laser sailors and sailing authorities.

The International Office, together with the Regional and District officers, ensure a strong and healthy future for the Laser.

The International Office also deals with correspondence and communications from individuals, fleets, sailing clubs, district committee members, national yachting authorities, the World Council, the International Sailing Federation and the various manufacturing plants - in fact anything concerning Laser!

***ILCA is working for each individual Laser sailor no matter where they are in the world.***



## FINANCES

Being a large class, there is a considerable amount of administration. At District level, membership numbers are often so big that part time secretarial help is needed to assist the volunteer officers, if only to send out the newsletters! Multiply the number of countries by 120 and add together all the memberships from each country, and it is easy to see why we need a full-time International Office.

Any club or association needs a small fee to cover costs. Your membership fee would normally include an amount for District and sometimes Regional administration, plus a contribution towards the international costs of the association. The international accounts are audited each year, and a summary income and expenditure account, including an accumulated reserve funds carried forward, is published in *LaserWorld*.

The association's finances and administration are independent of the Laser manufacturers, although we work closely together on a number of things. The World Council believes that our continued strength is related to having sound finances, therefore it tries to maintain a small operating surplus each year, which is put in a reserve fund.

# ILCA

- A self-administered international organisation
- Provides co-ordination, organisation and communication for the class worldwide
- Liaison with national and international authorities
- Maintains one design rules
- Protects the design and ensures consistency
- Monitors building agreements
- Self-funded
- Positively promotes Laser sailing worldwide
- Publishes annual handbook and quarterly magazine LaserWorld
- Co-ordinates international racing calendar
- Organises World Championships at international level
- Administers the class worldwide
- Sets the standard that others aspire to achieve

## Website: [www.laserinternational.org](http://www.laserinternational.org)

The ILCA website contains a large amount of regularly updated information useful to Laser owners, including:

- Event information for all Laser championships, including dates, allocations, Notice of Race, Charter Terms & Conditions and links to event venue websites.
- Full results, daily results and reports from all Laser Championships.
- Archive of results from Laser World & Regional Championships since 1971.
- RSS Newsfeed, to keep you in the loop with breaking news from ILCA.
- Calendar of events, which can now be integrated into your own calendar, so you can receive event updates automatically.
- Bid pages - want to host an ILCA championship? You can find all the bid documents for World and European championships online.
- Image Gallery, containing the best pictures from all Laser Championships.
- Videos of Laser sailing activities - from Masters events to the CrazyNorwegians.
- LaserWorld, our quarterly newsletter, is available for all to download or view online.
- Measurement Manual - to help both sailors and officials understand the Laser Class measurement process.
- Technical & Quality pages, which provide you with the opportunity to request assistance with quality complaints and where you can contact us with proposed rule changes.
- Regularly updated list of addresses for Laser contacts in each country.



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Correct as at 01.12.10 Updated regularly on the ILCA website: [www.laserinternational.org](http://www.laserinternational.org)

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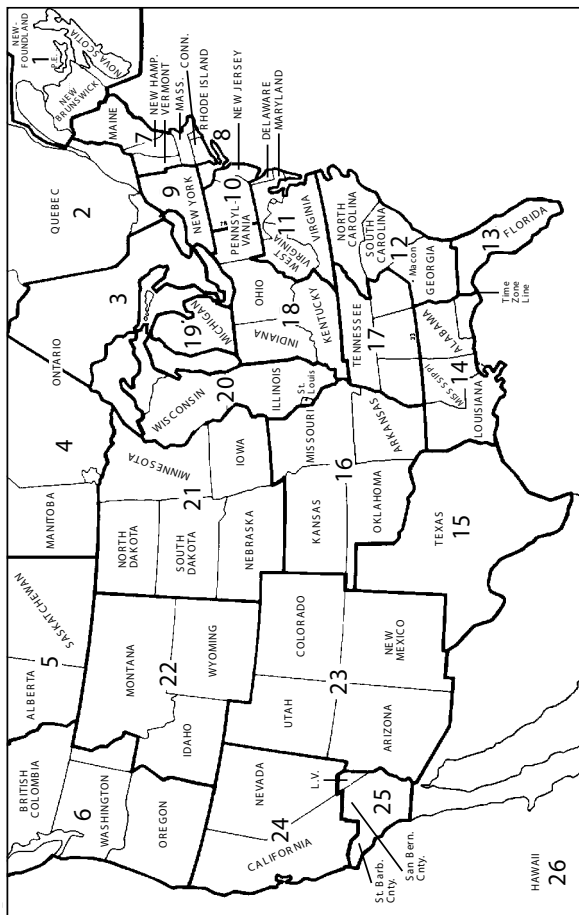
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## INTERNATIONAL LASER CLASS ASSOCIATION

# Constitution

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Amended 3 May 1974, 18 March 1993, article 12 amended 1 June 1995, articles 6 (1), 7 (4), 8 (3) and 9 (3) amended 1 January 2000.

### NAME

1. The name of the Association shall be the INTERNATIONAL LASER CLASS ASSOCIATION, with Head Office at PO Box 26, Falmouth, Cornwall TR11 3TN, England.

### INSIGNIA

2. The emblem of the Class shall be the recognised Laser symbol, and the insignia of the officers shall be those prescribed by By-Law.

### OBJECTS

3. The objects of the Association are
  - (1) to provide a medium of exchange of information among Laser sailors throughout the world and to enhance the enjoyment of these sailboats;
  - (2) to promote and develop Laser class racing in all countries, under uniform rules; and
  - (3) to encourage and foster the enjoyment of the sporting and recreational aspects of sailing.

### POLICY

4. It shall be the policy of the Association to maintain the Laser as the epitome of a strict one-design class of sailboat.

### JURISDICTION

5. The Association has authority over all activities of the Laser Class throughout the world, and its powers shall be vested in and carried out by the World Council, Regional Executive Committees, District Associations and Fleets as provided in this Constitution and any By-Laws passed pursuant to the provisions hereof; all subject to and in accordance with the General Rules and By-Laws of the International Sailing Federation.

### ORGANISATION

#### World Council

6.
  - (1) The Association shall be governed by the World Council comprised of the Chairman of each Regional Executive Committee from time to time holding office, the immediate Past President of the World Council, the Executive Secretary, the two appointed members of the Advisory Council, and such additional officers to be appointed by the Council for such term as it may from time to time determine. Each officer shall be a member of the Association.
  - (2) The World Council shall meet not less frequently than once per year and the first meeting shall take place within two months of the election of the Regional Chairmen. The time and location of meetings shall, if possible, coincide with the holding of a world or a regional championship meet.
  - (3) The World Council shall elect from amongst themselves, the President and Vice-President of the Association who shall hold office until their successors are elected to office; and the World Council may appoint Honorary Commodores from time to time as they shall see fit.
  - (4) The Executive Secretary shall be appointed by the elected members of the World Council and shall hold office for such term and upon such conditions as the World Council shall decide. He shall be situated at the Head Office of the Association and shall be responsible for the management of all business of the Association, subject to and in accordance with the Constitution, By-Laws and the direction of the World Council, including
    - (a) the co-ordination of all inter-regional activities,
    - (b) the organisation of all activities relating to World Championships,
    - (c) liaison between the Association, the ISAF and all other yachting authorities, and
    - (d) liaison between the membership and the Chief Measurer.
  - (5) The World Council shall appoint, for such term as it shall decide, a Chief Measurer for the Association who shall rule on all questions and challenges relating to the Rules, and shall issue Interpretations thereof deemed necessary by him. All such Interpretations shall be binding until approved, rejected, or modified by decision of the World Council, duly published to the members of the Association.

#### Regions

7.
  - (1) The World Council may, as and when it deems it convenient for the administration of the affairs of the association within a substantial area where several Districts are or may be established, constitute such area as a Region.

- (2) The World Council, upon establishing a Region, shall appoint a Regional Executive Committee comprised of a Regional Chairman, Vice Chairman, and Executive Secretary, to hold office until their successors are elected.
- (3) The Regional Executive Committee shall have those powers, vested in the World Council by this Constitution (other than the power to amend the Rules or this Constitution) as are specifically delegated to the Regional Executive by the Regional By-Law, including the power to appoint additional officers for such term as it may from time to time determine.
- (4) The Regional Executive officers, other than the Executive Secretary, shall be elected annually by vote of the Chairman (or other officer authorised by him if he is unable to attend) of each District at the annual Regional meeting to be held at the head office of the Region or such other place as the Regional Executive Committee shall determine, and shall hold office until their successors are elected, and nothing shall preclude one of the District Chairman as also acting as the Regional Chairman. Each officer shall be a member of the Association.
- (5) The Regional Executive Secretary shall be appointed by the elected members of the Regional Executive Committee, and shall hold office for such term and upon such conditions as the Regional Executive Committee shall decide. He shall be responsible for the management of the business of the Region, subject to and in accordance with the Regional Executive By-Law and the direction of the Regional Executive Committee, including
  - (a) the co-ordination of inter-District activities and events,
  - (b) liaison with the Executive Secretary of the World Council,
  - (c) issuance of Fleet Charters,
  - (d) maintenance of all records of the Region, and
  - (e) maintenance of all membership records and information, unless such duties are delegated to the District Secretary.
- (6) The World Council may subdivide a Region into one or more Regions, may amalgamate two or more Regions or may add Districts to or delete Districts from any Region from time to time as may be required for the effective administration of the Association.
- (7) In the event that a Regional Chairman shall be unable to attend any meeting of the World Council, the Executive Secretary of the Region or such any other member of the Regional Executive Committee nominated for that purpose may attend and represent the Chairman and vote at such meeting of the World Council.
- (8) Nothing shall preclude the Executive Secretary of a Region also serving as Executive Secretary of the World Council.
- (9) The Regional Executive Committee may make By-Laws, subject to the provisions of this Constitution and the Regional Executive By-Laws of the World Council, for any purpose necessary to carry out the functions and responsibilities of such Region, and copies of all such By-Laws as are from time to time passed by any Regional Executive shall be filed with the Executive Secretary of the World Council.

## **Districts**

8. (1) The World Council, on the recommendation of a Regional Executive Committee where applicable, shall by By-Law establish Districts in distinctive areas deemed appropriate and relevant, having regard to all considerations, including geography, language, distance, and population, for the development of the Laser Class and the fulfilment of the objects of the Association.
- (2) The World Council, upon establishing Districts, shall appoint District Associations comprised of a District Chairman, a Vice-Chairman, a Secretary, and a Treasurer, to hold office until their successors are elected.
- (3) The District Association shall consist of the foregoing officers, and may appoint such additional officers to hold office for such term as it may determine. Each officer shall be a member of the Association.
- (4) Each District shall be administered in accordance with and subject to the provisions of a Constitution of the District, approved by the World Council, or if the District has no Constitution, the District Association By-Law of the World Council; and the officers of each District Association shall be elected annually by the members of the Association within the District in accordance with the provisions of the District Constitution, or, in the absence thereof, the District Association By-Law.
- (5) The boundaries of Districts may be varied by the World Council on the application of any District concerned, and one or more Districts may be amalgamated or any District may be subdivided into one or more Districts with the approval of the District Associations concerned.
- (6) A District Association with the approval of the Chief Measurer may appoint a District Measurer for a District to assist the Chief Measurer in the conduct of his responsibilities and the enforcement of the Rules; and nothing precludes a District Measurer from acting as Measurer for more than one District. A District Measurer shall have the authority to rule on all questions and challenges relating to the Rules and Interpretations of the Chief Measurer, but he may not issue Interpretations except with the prior approval of the Chief Measurer.



- (7) A District Association may make By-Laws, subject to the provisions of this Constitution, the Regional Executive By-Laws, and the District Association By-Law or District Association Constitution (as the case may be), for any purpose necessary to carry out its functions and responsibilities in the management of such District.
- (8) If any District is within the jurisdiction of a National Authority, such District Association shall, in addition to any other requirements of this constitution, be subject to such rules, regulations and directions of such National Authority.

#### **Fleets**

9. (1) A Fleet may be granted a charter upon application to the Regional Executive Committee (or the World Council where the locality is outside a Region) by 6 or more members of the Association who are individual owners of Lasers within any area or club deemed appropriate, having regard to the locality where regular racing activity is easily accessible to members of that Fleet.
- (2) Notwithstanding paragraph (1), a special Fleet may be chartered in any locality for the purposes of accommodating specific members of the armed forces, an educational institution, a junior programme or any other non-profit organisation.
- (3) A Fleet Captain, and such other officers if any as the Fleet may deem necessary, shall be elected annually from among the members of the Fleet in such manner as is prescribed by the Fleet, unless otherwise provided by the By-Laws, and shall be responsible to the District Association for the organisation of the Fleet and the due compliance by the members of the Fleet with the provisions of the Constitution and By-Laws of the Association. Each officer shall be a member of the Association.

#### **MEMBERSHIP AND DUES**

10. (1) Any person may become a member of the Association by making application to the Executive Secretary, or the appropriate Regional Executive Secretary or District Secretary, as the case may be, and payment of the prescribed Association dues, provided that he has not been disqualified from membership for cause by decision of the World Council or under suspension from membership.
- (2) An application for membership implies that the applicant undertakes and agrees to be bound by the Constitution and By-Laws of the Association upon being accepted to membership.
- (3) A member of the Association *ipso facto* belongs to the District in which he normally sails, even though such place may not be his permanent residence; but such member, for valid reason and with the approval of both District Chairmen, may select instead the District in which he has permanent residence.
- (4) A member of the Association may become a member only of the Fleet in his District where he normally sails for the purpose of qualification, where required, for sanctioned events; and any dispute shall be settled by decision of the District Association which decision shall be final.
- (5) The World Council may grant honorary membership in the Association, for such period as it determines, to any person who, through special contribution to the Class or through special relationship to the Association, is considered meritorious.
- (6) The World Council may grant an honorary life membership to any member who has achieved, in the opinion of the World Council, international stature as a result of his yachting achievements.
- (7) An honorary and an honorary life member are entitled to full privileges of membership, but are not required to pay the annual dues of the Association.
- (8) Membership in the Association shall not be open to any company, partnership, group or other association unless specifically authorised in any case or class of cases by the World Council; and the World Council may impose such terms, conditions or qualifications to any such membership as it shall deem appropriate.
11. (1) Association dues shall be in the amount determined by and shall be payable within the time prescribed by By-Law of each Region or District, as determined by the World Council, and shall include all amounts required for World Council, Region and District purposes as determined by each authority.
- (2) The Association may ask for special contribution in addition to dues, provided any such contribution shall be for a specific purpose and shall not be mandatory.
- (3) Dues shall be collected by the Regional Executive Secretary, but the World Council may direct the District Secretary to collect such dues under such terms and conditions as to reporting and accounting as may be required.

#### **SUSPENSION AND REMOVAL FROM OFFICE**

12. A member may be suspended by the World Council, on the recommendation of a District Association, for gross violation of the Rules and By-Laws, for committing an unlawful act in relation to the Association or one of its members, or for any unsportsmanlike conduct contrary to the interests of the members of the Association. The duration of the suspension shall be fixed by the World Council and a suspended member shall during such period be precluded from racing or enjoying any other rights of membership.
13. A Regional or District officer may be removed from office by the World Council for a wilful and unjustifiable act of commission or omission detrimental to the Association or to its members.

## **APPEALS**

14. Any dispute arising in relation to fleets, districts, regions, eligibility to race, the interpreting of this Constitution, the By-Laws or similar matter, other than any dispute as to the interpretation of the Rules or any protest within the jurisdiction of the applicable racing rules, may be made to the World Council whose decision shall be final and binding.

## **ADVISORY COUNCIL**

15. The President and Vice President of the World Council and two persons nominated by those builders who are also Trademark owners shall constitute the Advisory Council and shall assist and co-operate with the World Council in the carrying out of their responsibilities, and shall have the responsibilities as set forth in paragraph 17 hereof and the paragraph entitled "Amendments" of the Rules.

## **BY-LAWS**

16. The World Council may make By-Laws for the purpose of carrying out the objects of this Constitution and of the Association and, without restricting the generality of the foregoing, may make By-Laws
  - (a) amending the Rules of the Laser Class, hereby established as By-Law 1 of the Association, as provided in paragraph 29 thereof;
  - (b) respecting the establishment of Regions, and the powers of the Regional Executive Committees;
  - (c) delegating specific powers of the World Council to Regional Executive Committees;
  - (d) respecting the establishment of Districts and the powers of District Associations;
  - (e) respecting the Constitution and By-Laws of District Associations;
  - (f) respecting registration of members and collection of dues;
  - (g) respecting the measurement of boats and measurement fees;
  - (h) respecting the conduct of championship and other regattas, including the classification of regattas and the eligibility of members for major racing events;
  - (i) respecting the acceptance of deeds of gift of trophies;
  - (j) changing the Headquarters of the Association; and
  - (k) respecting the procedures for meetings of the World Council and Regional Executive Committees, including the conduct of business by mail or other means of communication.

## **AMENDMENTS**

17. Amendments to this Constitution shall be approved by each of:
  - (a) the World Council
  - (b) the Advisory Council
  - (c) at least two thirds of the membership replying in writing to the International Office of the Class in response to a postal ballot published by the International Office. Only those postal votes returned to the International Office within 6 months from the date of publication of the proposed change shall be valid.

## **TRANSITION PROVISIONS**

18. (1) This Constitution shall come into force on the date of the approval thereof by the Association in accordance with the provisions of Article XVIII of the Laser Association Constitution enacted September 30, 1972; and thereupon the said Constitution enacted September 30, 1972, shall be repealed and the officers of the Association elected and appointed under the provisions of the Constitution enacted September 30, 1972, shall be deemed to be the first officers of the World Council under the within Constitution, to hold office until their successors are appointed or elected, as the case may be.
- (2) On the coming into force of this Constitution each District and each Fleet established under the Constitution enacted September 30, 1972, shall be deemed to be Districts and Fleets within the meaning of this Constitution, and all officers and Fleet Captains of such Districts and Fleets shall be deemed to be the first officers and Fleet Captains of such Districts under this Constitution until their successors are appointed or elected, as the case may be.
- (3) All Actions of the Executive Committee or other officers of the Association, including any District officer, made or performed pursuant to the said Constitution enacted September 30, 1972, shall be deemed to be validly done for the purpose of the within Constitution to the same extent as though same were carried out in accordance with the provisions hereof.

# Protecting the One Design Principle

## An overview of the tools we have to protect the One Design Principle and how each member of ILCA can influence changes to the Rules and the Laser Construction Manual

The one-design principle is the most important asset of the Laser Class. Its protection is therefore a prime concern for the class. A number of legal instruments are in place to assure that protection. The most important ones are the Laser Construction Manual (LCM) and the Laser Class Rules.

The LCM is a proprietary, protected document that specifies the manufacturing procedures, standard plugs and tools as well as the raw materials and parts supplied by third parties for the hull, sails and spars. Periodic factory inspections by the class make sure that the manual is strictly adhered to by the builders. These factory inspections are the "measurements" in the traditional sense of sailing.

The class rules specify that nothing can be changed by a sailor on the hull, sail and spars except what is specifically and positively allowed by the rules. At major Laser regattas, there is no measurement in the traditional sense. Instead, a simple inspection is made to assure that only original parts are used and that the boat is rigged according to the rules.

The one-design principle means that all Lasers produced by the licensed builders are the same. There should be no differences in performance, quality and fittings used between boats from different manufacturers. The LCM is the instrument to assure this. It defines in detail the manufacturing procedures, the materials used and the quality assurance procedures mandatory for each builder.

Any change in the LCM requires the unanimous approval by all licensed builders, the International Laser Class Association and the ISAF. Several years ago, the ILCA undertook a major revision of the LCM to bring it into compliance with current practice. Wherever possible tolerances were reduced, more detailed descriptions were added and the whole manual was put into a properly secured electronic form. The LCM is continuously reviewed as part of an ongoing process to further tighten tolerances and specifications where possible.

During the revision of the LCM much thought was given to the basic principles on how the Laser should evolve. The following principles were approved by all the builders and the ILCA and are now part of the LCM:

### Evolution in quality and ease of use:

The builders have made and will continue to make a sustained effort to improve the quality, durability and ease of use of the Laser – but without changing its basic performance. Where tolerances exist in the quality assurance procedures for incoming materials and for the manufacturing process, a continued effort will be made to reduce them, but avoiding significant cost increases.

### The concept of a "lead builder":

For each proposed project a "Lead Builder" will be nominated, who will report periodically to the other builders and ILCA. Changes can only be introduced after the appropriate testing and with the approval of all of the parties concerned.



**Availability of options in materials and fittings:**

If the LCM or the class rules allow options in the fittings, boat parts and material used, then all options must be made available worldwide at the same time and at comparable prices.

**Evolution of the Laser:**

Allow only for changes that are not too expensive, do not affect the performance of the boat and can be easily fitted by a sailor without professional help.

Parts or fittings that have been produced in compliance with the LCM and are therefore legal under the rules cannot be subsequently made illegal, but restrictions on the use of particular equipment (in the interest of minimising differences) may be made.

The control of the adherence to the LCM is governed by the Laser Construction Manual Agreement signed by the afore mentioned parties. It defines the procedures for the periodic factory inspections by the class and the measures necessary in case of deviations. This agreement is the most important legal document, which, alongside the Laser Class Rules, holds the whole "Laser one-design system" together.

**The Rules:**

The basic principle is that nothing can be changed by a sailor on a Laser, which was built according to the tight specifications of the LCM. Only a few changes, which are positively described in the rules, are allowed. The rules also describe how a boat must be rigged to be class legal. The rules are sometimes difficult to understand. Therefore the Chief Measurer of the Class publishes, from time to time, interpretations to certain rules.

Nevertheless, over the years changes have been made to the Laser and the LCM and the rules have evolved. However, the class and the builders were very careful that:

- The changes do not affect the basic performance of the boat, but
- Only the ease of use, durability and safety were improved and
- Older parts, fittings and sails remain legal

**How can each member of ILCA influence these changes?**

Firstly, be aware that only changes which improve the ease of use, durability and safety of the boat, have the chance to be passed.

**Rule changes:**

If you have a good idea for a rule change, talk first to some other sailors and also to class officials to see whether they share your opinion. If this is the case, then formulate the rule change as precisely as possible and add a justification. Next, send your proposal to the Chief Measurer of the Class, Jean-Luc Michon (e-mail: [chiefmeasurer@laserinternational.org](mailto:chiefmeasurer@laserinternational.org).) He will discuss it with the other members of the Technical and Measurement Committee. If recommended the proposal will then be presented to the World Council. Finally, if the World Council and the Advisory Council agree with your proposal, the rule change must be approved by two thirds of the membership.

**Changes in the Laser Construction Manual:**

In view of the protection of the one-design principle, there is always much hesitancy to change the LCM. Any change must have clear and important advantages in terms of usability, quality, durability or safety. Any proposal must be duly justified.

The best way to get some attention is to present a detailed proposal to the Technical and Measurement Committee through the ILCA Technical Officer, Clive Humphris, e-mail: [technical@laserinternational.org](mailto:technical@laserinternational.org).) Be aware that any change requires the unanimous approval by all the builders, the International Laser Class Association and the ISAF, but is not subject to a member vote. Despite the high hurdles a change must overcome before it can take effect, there are several examples in the last few years of important changes that were initiated by ILCA members. If you have a good idea for improving the Laser, do not be scared away by this process.

Reprinted from original articles by Heini Wellmann, featured in LaserWorld October 2007 and January 2008.

# Technical Tips

One of the great things about the Laser is it is instant sailing. It takes only a few minutes to rig a Laser and then you are out on the water. Here are some ideas to help make rigging and sailing a Laser even more simple.

## Mast retention line (class rule 3(b) xi.)

The mast retention line is one of the most important lines on the boat. It must allow 180 degree rotation of the mast and at the same time keep the mast in the deck tube in the event of a capsize. It is important that the mast cannot move in and out of the tube by more than 50mm. A mast retention line with too much movement may result in the mast sliding most of the way out of the tube and then breaking through the side of the tube and the deck when the boat is righted after a capsize.

You will need 640mm of 5mm diameter line and a 15mm plastic stop ball. Core spectra line works well as it is low friction.

1. Tie a stop knot in one end of the line and thread the stop ball on to the line.
2. Pass the loop through the 2 eyes on the deck block plate (fig 1).
3. Tie a bowline in the other end of the line so that the overall length of the line from the end of the loop to ball is 570mm. The loop of the bowline should be just big enough to allow the stop ball to pass through the loop.
- 4 Take the loop end round the front of the mast and then behind the mast over the top of the mast boom vang attachment point and back to the front of the mast.
5. Take the ball end of the rope to the front of the mast and pass through the loop to secure (fig 2).

The retention line can be left on the boat through the deck block fitting so it does not get lost.

Reprinted from an article featured in LaserWorld January 2008.



## Is Your Rudder Angle Correct?

At championships, measurers are often asked what angle the rudder should be set at, how this is measured and, if it is wrong, how it can be fixed. This article is intended to answer these questions.

Using a measuring gauge (fig 3), the angle is measured between the bottom edge of the rudder box and the front edge of the rudder blade.

So, if the front edge of the rudder exceeds 78 degrees, it is more vertical than it should be.

The sanctioned method (Rule 15(e) of the Laser Class Rules) to correct this is to wind plastic tape around the front lower rudder box spacer pin (fig 4).

Note: you are **not** allowed to add material to the front of the rudder to achieve the same effect.

If the rudder angle is significantly less than 78 degrees, you may cut away the rudder where it touches the spacing pin (see Rule 15(d)).

Be careful though, as just 1mm of cut away will result in about 1 degree of rudder movement.

You are always safer to make it slightly less than 78 degrees to allow for wear on the pivot bolt hole and the contact area to the spacing pin (fig 5).

With the recent availability of new fibreglass skinned rudders, both Performance Sailcraft Australia and Laser Performance inform us that the incidence of rudders being significantly below 78 degrees (in conjunction with a modern rudder head) is extremely low.

If required, the gel coat can be wet sanded to fine tune the angle.

However, sanding into the laminate will weaken the blade and is not advised.

Reprinted from an article by Technical Officer Clive Humphris, featured in LaserWorld March 2009.



# Instructions for Applying Sail Numbers

## Style and Colour

Only self-adhesive, stick on sail numbers and letters may be used. Each one shall be a single, solid colour, and easy to read. The last four numbers on both sides of the sail shall be the same dark colour, preferably black. The numbers in front of the last four shall all be another, obviously different colour, preferably red. National letters are only required at international events, and shall all be the same colour.

## Preparation

If the sail is not new, it should be sponged clean with mild soapy water, rinsed and dried. Find a large, clean, flat, hard surface to work on, such as a table or clean wooden floor.

## Template

Make a template that each number will just fit inside. See the **Positioning Diagrams** for the minimum sizes of numbers and letters, and template details. They are different for each of the Standard, Radial and 4.7 sails. The template is a rectangle for upright numbers, and a parallelogram for angled numbers.

## Base Lines and Limit Lines

Use a pencil to lightly draw **Base Lines** and **Limit Lines** on the sail. The bottom of each number and letter must lie on a **Base Line**. The **Limit Line** is parallel to the leech of the sail, and 100mm from it. The closest letter or number to the leech is positioned to just touch the Limit Line. This is shown as the **Start Point** on the Positioning Diagrams. The number or letter should touch the Limit Line at the Base Line or at any other height, depending on its shape.

## Starboard Side Numbers and National Letters

1. Spread the sail out flat on the working surface so that the starboard side of the sail is facing up. The leech (back edge of the sail) will be on the left hand side as shown in the positioning diagrams.
2. Make sure you are using the correct diagram for the design of sail you are applying the numbers to. Draw the **Base Line** and **Limit Line** for the starboard numbers as shown on the positioning diagram.
3. Before peeling off the backing, place the bottom of the first number on the Base Line, with the Start Point touching the Limit Line. Use the template with its bottom edge on the Base Line to make sure the number is at the correct angle. Pencil around the outline of the number.
4. Peel and fold back about 10mm of the backing from the bottom of the number. Place the number within the pencil outline and press down to stick the peeled back area. Lift the remainder of the number and slowly peel off the backing as you smooth the number onto the sail, taking care to remove air bubbles and creases as you go.
5. If the first number you applied was a 1 (one), measure from the bottom right corner of it and mark a point the space width away along the Base Line. The space width is 60mm for Standard and Radial rig sails, and 40mm for 4.7 sails - see the appropriate Positioning Diagram. Place your template on the base line with its lower left corner on the new mark and pencil round the outline of it. Before peeling off the backing of the second number, place it within the pencil outline of the template. Pencil around the outline of the number, and apply it as in point 4, above.
6. If the first number you applied was not a 1 (one), place your template over it and make a pencil mark at the bottom right hand corner. Measure the space width from this mark along the Base Line and make a second pencil mark. Place the template, with its lower left hand corner on the second mark, pencil around the outline and then apply the next number as in point 4, above.
7. When a 1 (one) is to be applied after another number, make sure the appropriate space width between numbers along the Base Line is maintained, as shown in the positioning diagram. Use the bottom right hand corner of the template, placed over the preceding number to find the start of the space width on the Base Line.
8. Continue marking number positions using the template, the appropriate space widths between template corners, and applying numbers to complete the full sail number. Use the same method to apply national letters if they are required.

## Port Side Numbers and National Letters

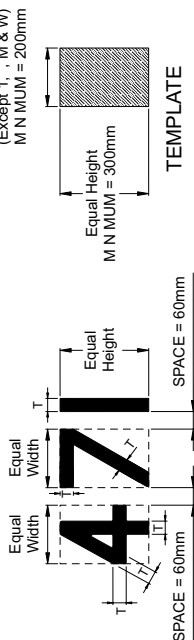
1. Spread the sail out flat on the working surface so that the port side of the sail is facing up. The leech (back edge of the sail) will be on the right hand side.
2. Follow the same method as for the starboard side, starting with the number or letter closest to the leech (the last digit of the full sail number or the last national letter), and working along the Base Line away from the leech.



# STANDARD RIG NUMBER & LETTER SIZES AND POSITIONING

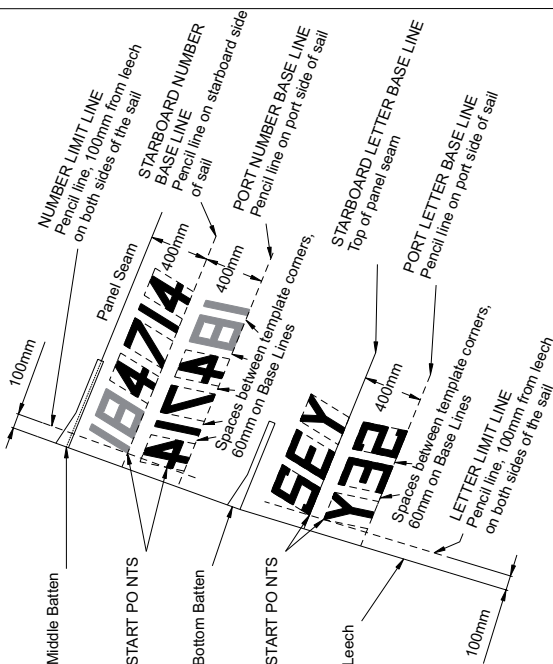
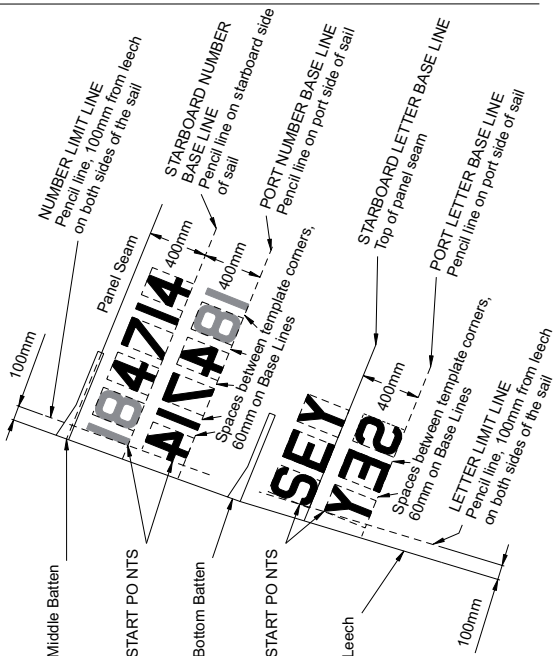
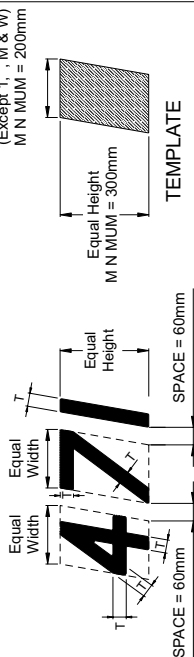
## UPRIGHT NUMBERS AND LETTERS

T = Thickness = M N MUM 45mm



## ANGLED NUMBERS AND LETTERS

T = Thickness = M N MUM 45mm

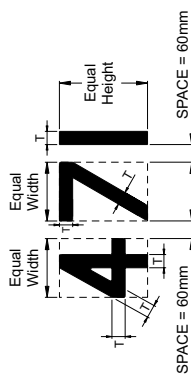


- 1 M N MUM SPACE BETWEEN NUMBERS AND LETTERS IN THE CLASS RULES IS 50mm. SO USE 60mm TO ENSURE THAT ANY SMALL ERRORS IN POSITION ARE STILL LEGAL.
- 2 LAST FOUR DIGITS OF SAIL NUMBER TO BE ONE DARK, DISTINCTIVE COLOUR OR BLACK. PRECEDING DIGITS TO BE A DIFFERENT, CONTRASTING, DISTINCTIVE COLOUR, PREFERABLY RED. ALL NUMERICAL LETTERS TO BE ONE COLOUR. THEY MAY BE ONE OF THE COLOURS OF THE SAIL NUMBER DIGITS OR ANOTHER DISTINCTIVE COLOUR.

# RADIAL RIG NUMBER & LETTER SIZES AND POSITIONING

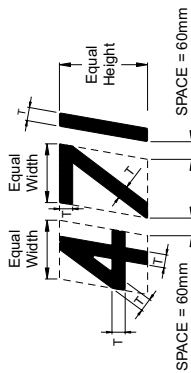
## UPRIGHT NUMBERS AND LETTERS

T = Thickness = M N MUM 45mm

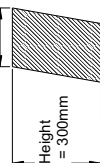


## ANGLED NUMBERS AND LETTERS

T = Thickness = M N MUM 45mm

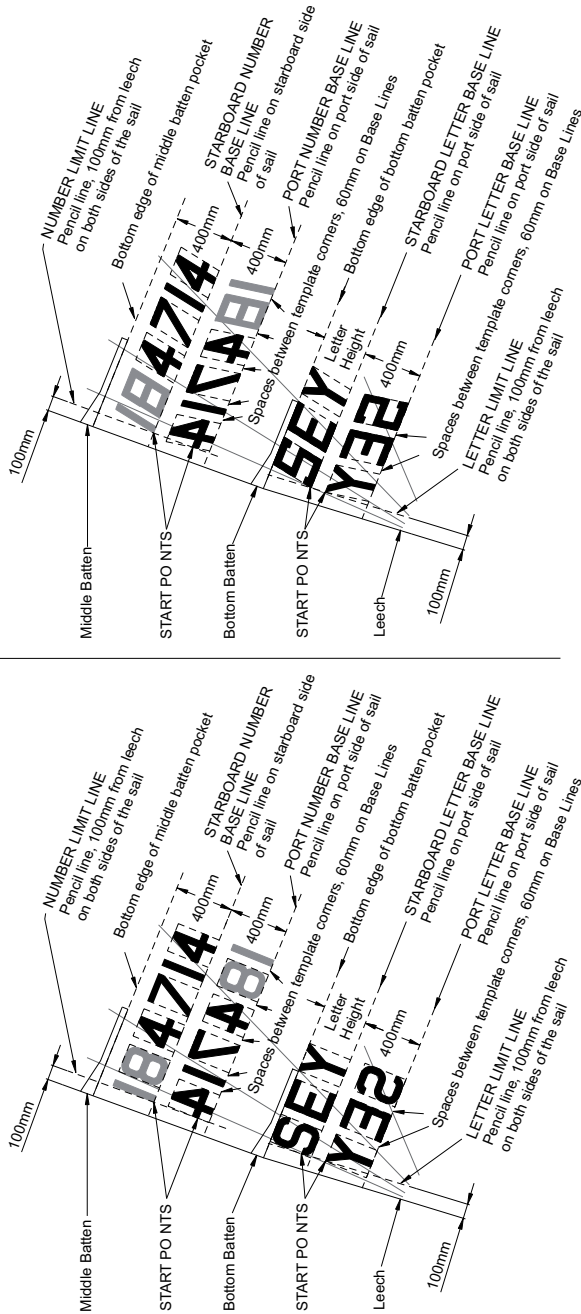


Equal Width  
(Except 1, M & W)  
M N MUM = 200mm



TEMPLATE

SPACE = 60mm



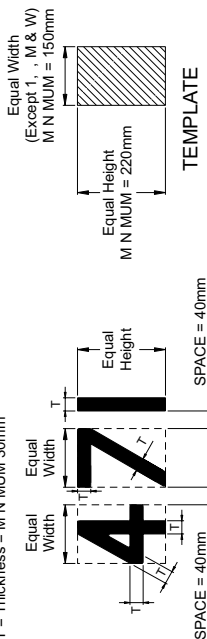
- 1 M N MUM SPACE BETWEEN NUMBERS AND LETTERS IN THE CLASS RULES IS 50mm, SO USE 60mm TO ENSURE THAT ANY SMALL ERRORS IN POSITION ARE STILL LEGAL
- 2 LAST FOUR DIGITS OF SAIL NUMBER TO BE ONE DARK, DISTINCTIVE COLOUR OR BLACK PRECEDING DIGITS TO BE A DIFFERENT CONTRASTING, DISTINCTIVE COLOUR, PREFERABLY RED. ALL NATURAL LETTERS TO BE ONE COLOUR. THEY MAY BE ONE OF THE COLOURS OF THE SAIL NUMBER DIGITS OR ANOTHER DISTINCTIVE COLOUR

# LASER 4.7 RIG NUMBER & LETTER SIZES AND POSITIONING

January 2009 Edition

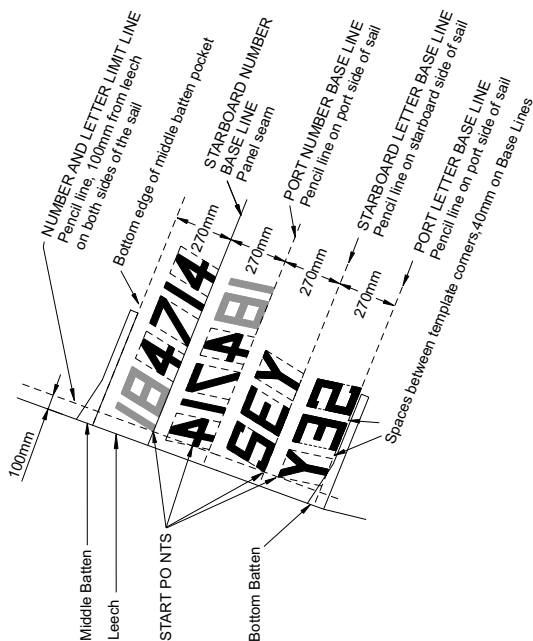
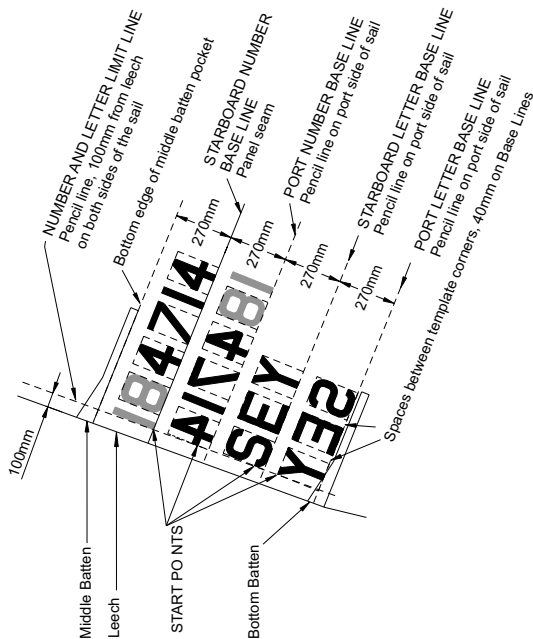
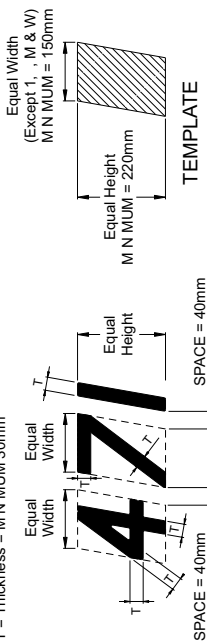
## UPRIGHT NUMBERS AND LETTERS

T = Thickness = M N MUM 30mm



## ANGLED NUMBERS AND LETTERS

T = Thickness = M N MUM 30mm



- 1 M N MUM SPACE BETWEEN NUMBERS AND LETTERS IN THE CLASS RULES IS 30mm, SO USE 40mm TO ENSURE THAT ANY SMALL ERRORS IN POSITION ARE STILL LEGAL
- 2 LAST FOUR DIGITS OF SERIAL NUMBER TO BE ONE DARK, DIGIT NOT VE COLOUR OR BLACK PRECEDING DIGITS TO BE ADFFERENT; CONTRASTING, DIGIT NOT VE; COLOUR, PREFERABLY RED ALL NATIONAL LETTERS TO BE ONE COLOUR THEY MAY BE ONE OF THE COLOURS OF THE SERIAL NUMBER DIGITS OR ANOTHER DIGIT NOT VE COLOUR

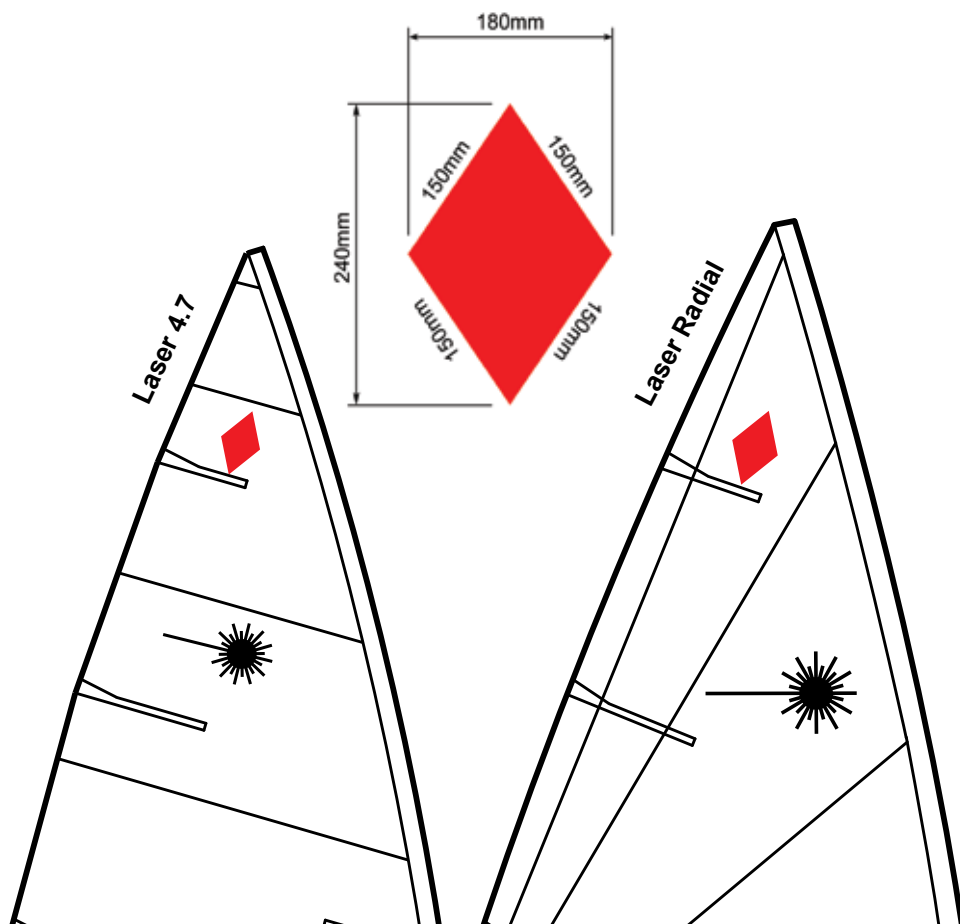
# Instructions for Applying Red Rhombus For Women's Events

Sails used in the following women's events shall carry a red rhombus above the top batten pocket on both sides;

- World or regional (continental) championships.
- Events described as "international events" by the Notice of Race or Sailing Instructions.
- Other events that prescribe in the Notice of Race or Sailing Instructions that women competitors should be identified.

The minimum size and approximate position shall comply with diagrams below.

The rhombus may be retained for racing in other events.



# Boat Care - Stresses and Strains

The Laser boat has an excellent record of durability but like any piece of equipment it can break if overstressed. Weight for weight it probably has one of the strongest constructions of any boat of its type, a fact we are all aware of on occasions when we see Lasers over 10 years old, sailing happily when other classes are retired to the scrap heap. Further, the Laser has proved itself in very strong winds when other classes are reduced to wreckage. It never ceases to amaze me to see Lasers sailing in 40 knots plus.

Over the years, small changes have been made to the Laser to strengthen it as we sail in increasingly stronger winds. However, there is a limit to the number of changes that can be made before performance is affected.

## Mast and Boom

One particular area where strengthening is not possible without affecting performance is the mast. Any increase in strength of the mast would dramatically affect stiffness and therefore performance. This would be totally undesirable.

The Laser mast is produced to a high manufacturing standard in the aluminium trade for the specified wall thickness. Within this standard the Laser requirements demand an even tighter tolerance. Even with this high standard it is possible, when sailing, to stress the mast beyond its yield point which causes a permanent bend.

Some of the biggest causes of bending are sailing with a lot of boom vang on and:

- 1) capsizing at speed;
- 2) catching a wave with the boom end, either offwind or whilst gybing; or
- 3) sailing into the back of a wave causing rapid deceleration.

Recognising these causes tells us that it is very important to release the boom vang before sailing offwind, ideally just before you round the windward mark. In strong winds, this will reduce the risk of bending with the added advantage that you will open up the leech of the sail which is fast for offwind work! As a guide for letting off the boom vang, trim the mainsheet tight until the rear boom and traveller blocks are just touching then release the vang until there is no pressure on it.



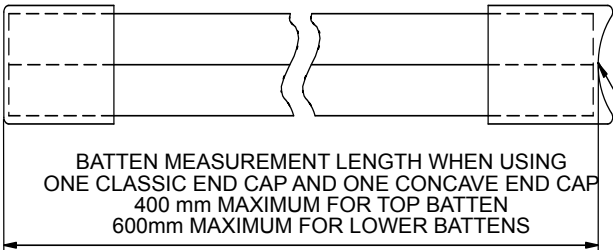
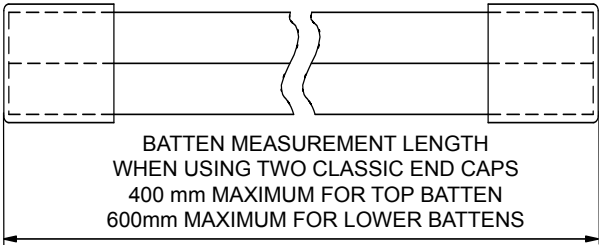
© Paul Wyeth

## Rudder and Tiller

Rudders and tillers like everything else are not indestructible. On the very few occasions when we have seen damage to either the rudder or the tiller, it has been caused by trying to bear away at speed while the Laser is heeled to leeward. When a Laser is heeled over it takes on severe weather helm. If you try and bear away whilst heeled, you place great loads on the rudder and tiller. The simple answer is to bring the boat upright first before attempting to bear away. This can be done by either hiking more and/or releasing the mainsheet.

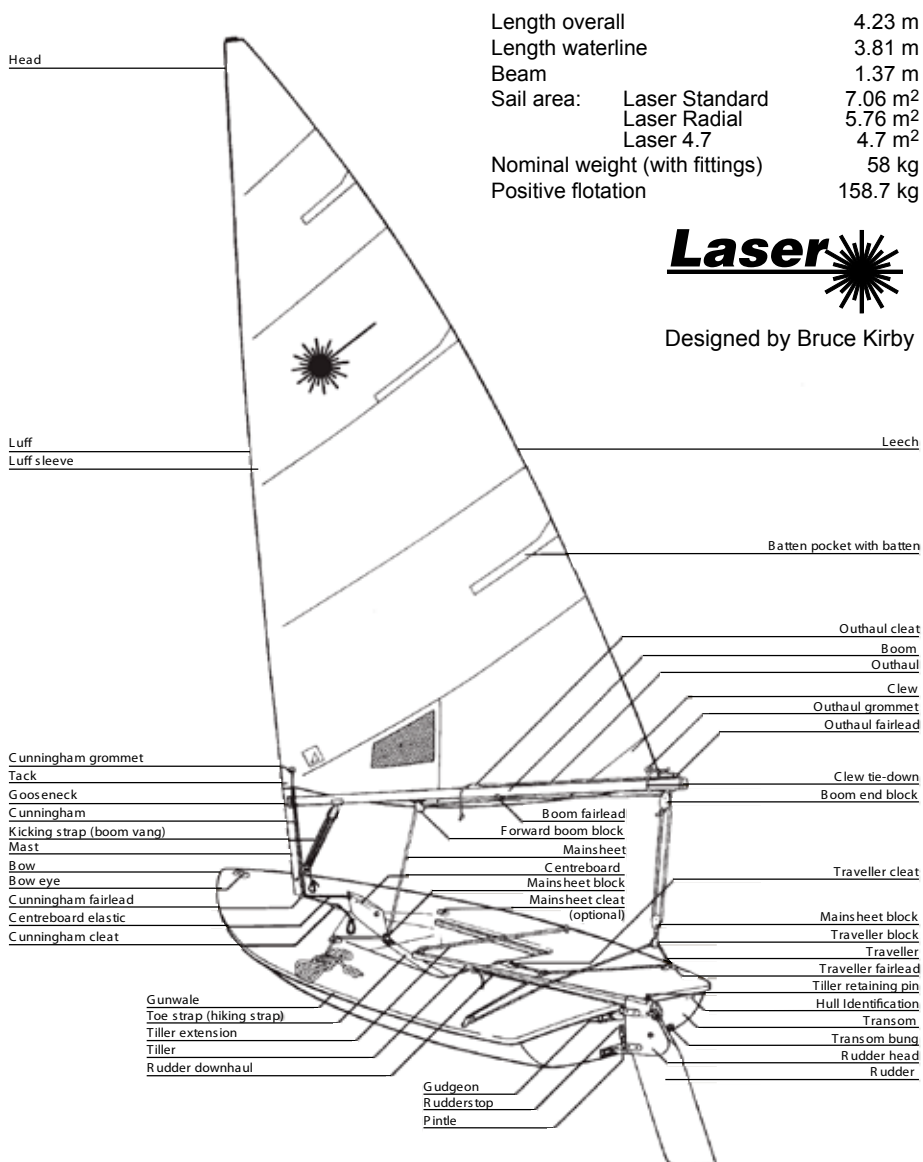
# Concave Batten Caps

The diagrams below illustrate the methods to be used for the measurement of battens using both classic and concave end caps. Please see pages 45-47 for full sail and bottom section diagrams.



BATTEN LENGTH IS  
MEASURED TO THE  
MIDDLE OF THE  
CONCAVE END CAP

# Parts of the Laser



# Laser Worldwide

(Estimates as of 2012)







# Laser Class Rules - One Design

One of the attractions of the Laser for most owners is that the class rules are very strict and that the boat is one design. The Laser philosophy incorporated in the rules is that we want to go sailing, not waste time fiddling with boats. We want to win races on the water using our skill, not by trying to find a way round the rules that will give us an advantage.

The class rules are written to prevent any changes from the standard boat that might affect performance, so that on the water each boat is the same. The few changes to the standard boat that are allowed are minor and only to allow for a few options that make racing the Laser more comfortable and enjoyable.

Over the years the class has refused to make changes to the rules that allow more expensive or complicated equipment or which makes older boats redundant.

If you feel you want to change something on a Laser - STOP. Ask yourself why you want to do it? If the answer is "to make me go faster" there is a very good chance the modification or addition is illegal!

Take a look at the Laser Rules.

- Part One explains the Fundamental Class Rule which covers the philosophy and any item not specifically written into the rules.
- Part Two tells you what you must do to have a legal boat.
- Part Three details a few optional changes and additions you can make.

## If Part Three does not specifically allow a change or addition - IT IS ILLEGAL!

If you race a Laser that has a change or addition not allowed by the class rules you will be disqualified from the race. Ignorance of the rules is no defence.

## Cheating

In our sport in every club and class there is the odd person who needs to cheat to win. Cheating is doing something that you know is illegal. Whether you gain an advantage or not is irrelevant.

Our class is strong and popular because we believe in a strict one design and our sailors want to know that they are racing on equal terms. ILCA takes a very strong line with Laser sailors who do not sail according to the rules. There have been cases in the past where sailors who have sailed with illegal boats have been banned from sailing a Laser. Such a ban can be for life. If action is also taken under the racing rules, the ban can cover racing in any boat.

Our class is much bigger than the odd person who wants to gain advantage by illegally changing the Laser or its equipment. They can sail in other classes where the rules allow changes to a boat to get an advantage. We do not want them with us.

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1. Measurement Diagrams.....35	13. Self Bailer.....39	26. Repairs & Maintenance.....41
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The latest edition of the Laser Class Rules and By-Laws are available at [www.laserinternational.org](http://www.laserinternational.org).

The class rules and By-Laws may be amended after publication of the Handbook.

# ILCA By-Law 1: Rules (Parts one to five inclusive)

Valid from 1 January 2012 . Cancels all previous rules and interpretations.

## HISTORY:

There have been no rule changes since the last printing in 2012:

**1 January 2012:** Mainsheet - rule 3 (c) i and ii rewritten without changing content. Additional sentence added to make it clear that when the mainsheet is tied or knotted after the mainsheet block the knot or tie shall prevent the end of the mainsheet being pulled through the mainsheet block. Centreboard - rule 14 (f) routing of the centreboard shock cord clarified to allow it to pass through an attachment to the "Builder supplied" deck block fitting or the cunningham fairlead. Compass, Electronic Equipment and Timing Devices - rule 22 extended to make clear that all types of electronic equipment including mobile phones, radios and cameras are prohibited unless modified in the sailing instructions. Clothing Weight for Radial and 4.7 - rule 28 and 29. Rule 6a weight limit is increased from 8kg to 9kg for the Laser Radial and from 7kg to 8kg for the Laser 4.7. This is to allow sufficient clothing to keep warm while wearing hiking pants.

## INTRODUCTION

The principle of the Laser Class Rules is that no changes to the boat are allowed unless they are specifically permitted by the class rules.

The English text of the Laser Class Rules shall govern.

## PART ONE

### OBJECT

The Laser is a strict one-design dinghy where the true test, when raced, is between helmspersons and not boats and equipment.

### FUNDAMENTAL RULE

**The Laser shall be raced in accordance with these rules, with only the hull, equipment, fittings, spars, sail and battens manufactured by a licensed builder in accordance with the Laser design specification (known as the Construction Manual) which is registered with ISAF.**

**No addition or alteration may be made to the hull form, construction, equipment, type of equipment, placing of equipment, fittings, type of fittings, placing of fittings, spars, sail and battens as supplied by the builder except when such an alteration or change is specifically authorised by Parts 2 or 3 of these Rules.**

### HULL IDENTIFICATION

All Lasers shall have an identification number moulded into the deck under the bow eye or into the transom, which shall be either the sail number or a unique production number.

Lasers with sail numbers from 148200 shall display a unique ISAF Building Plaque that has been purchased by the builder from the International Laser Class Association. The plaque shall display the sail number of the boat issued by the International Laser Class Association and shall be permanently fixed in the rear of the cockpit by the builder.

## DEFINITION OF BUILDER

A Builder is a manufacturer that has a building agreement from Bruce Kirby or Bruce Kirby Inc. to build the Laser and has rights to use a Laser trademark and has been approved as a Laser Builder by each of the International Sailing Federation and the International Laser Class Association.

## PART TWO

### 1. MEASUREMENT DIAGRAMS

The measurement Diagrams are part of these Rules.

The spars, sails, battens, centreboard, rudder, and the placing of fittings and equipment shall conform to the Measurement Diagrams. The measurement tolerances are intended to allow for necessary manufacturing tolerances and shall not be used to alter the design.

### 2. MEASUREMENT

In the case of a dispute alleging non-compliance with the Construction Manual, the matter, together with any relevant information, shall be referred to the Chief Measurer of the International Laser Class Association at the International Office who shall give a final ruling in consultation with an ISAF Technical Officer.

In the case of a measurement dispute on the hull, spars, sail, battens, centreboard and rudder, rigging, type of fittings and equipment and the placing of same not explicitly covered by these Rules, Measurement Diagrams and Measurement By-Laws the following procedure shall be adopted:-

A sample of 10 other boats shall be taken and measured using identical techniques. The dimensions of the disputed boat shall be equal to, or between the maximum and minimum dimensions obtained from these 10 boats. If the boat in question is outside these dimensions the matter, together with any relevant information, shall be referred to the Chief Measurer of the International Laser Class Association at the International Office, who shall give a final ruling. If any of the dimensions of the sample are considered to be unusual, all relevant information shall be referred by the Class Association to the ISAF.

### 3. CONTROL SYSTEMS, CONTROL LINES AND FITTINGS

#### (a) Control System Definitions

i The Cunningham, outhaul, vang, traveller and mainsheet are the **Control Line Systems**. The cunningham, outhaul and vang **Control Line Systems** may include more than one **Control Line** as allowed in Rules 3(d)i, 3(e)i and 3(f)i. Each **Control Line** shall be a single piece of uniform thickness and material. A line is a **Control Line** if any of the line moves along its axis during adjustment of the **Control Line System**. A line that exclusively attaches items together is a **Tie Line**.

ii For the purpose of these definitions, the **Standard Fittings** are the:-

Plastic cunningham fairlead  
Plastic cunningham clam cleat  
Mainsheet block  
Plastic outhaul clam cleat  
Plastic outhaul fairlead  
Vang cleat block  
Vang key block  
Vang key  
Plastic traveller fairleads  
Plastic traveller clam cleat

iii An "**Optional**" fitting is a fitting or block that replaces, or is additional to, a **Standard Fitting** as

allowed by these Rules.

- iv A **"Builder Supplied"** fitting replaces a **Standard Fitting**, and is supplied only by the Builder, as allowed by these Rules.
- v A **"Turning Point"** is a sheave (pulley) in a block, a rope loop, a rope loop reinforced with a thimble, the outhaul fairlead, a shackle, part of a fitting, sail cringle, mast or boom around which a moving **Control Line** passes, **except** that the cunningham fairlead, the **"Optional"** blocks attached to the **"Builder Supplied"** deck block fitting, the cunningham clam cleat, and the **"Optional"** cam cleats attached to the **"Builder Supplied"** deck cleat base **will not be counted** as **"Turning Points"** in Rules 3(e)i and 3(f)i.
- vi When an **"Optional"** block, or shock cord is **attached** to a fitting, line, mast, boom or the sail, it may be attached either with or without a shackle, clips, balls, hooks and/or a tie line.

**(b) Control Lines and Fittings**

- i. Control lines shall be natural or synthetic rope, except that aramid fibre (e.g. kevlar) is not permitted for the boom vang or cunningham control systems.
- ii. Control lines shall be of uniform thickness and shall not be tapered except for the purpose of a splice at the load bearing attachment point.
- iii. In a control line system where more than one control line is permitted, lines of different diameter shall not be joined together.
- iv. "Optional" blocks allowed in cunningham, vang or outhaul control systems, shall have sheaves of diameter not less than 15 mm and not more than 30 mm.

Thimbles allowed to reinforce rope loops used as "Turning Points" in the cunningham, vang and outhaul control line systems shall not exceed 40mm in length.

- v. Only single or double "Optional" blocks shall be used. A single block means a block with one sheave; a double block means a block with two sheaves. "Optional" blocks may include a becket, a swivel and/or a shackle.
- vi. The plastic fairleads and plastic clam cleats may be replaced in the same position with an identical size and shape fitting made of metal.
- vii. The plastic cunningham fairlead may be replaced with one of the same type which has a stainless steel insert, and has the same screw hole positions.
- viii. "Builder Supplied" Deck Fittings (Deck Block Fitting and Deck Cleat Base)

- a) The cunningham fairlead may be replaced in the same position with a "Builder Supplied" deck block fitting which may have one or two single "Optional" blocks attached.



"Optional" blocks shall not be attached to the cunningham fairlead.

Either the cunningham fairlead alone, or the "Builder Supplied" deck block fitting with single "Optional" block(s) attached may be used to lead the cunningham and/or outhaul control lines to the deck cleat(s)

- b) The "Optional" deck blocks may be supported

with a spring, ball, plastic tube or tape.

- c) The cunningham clam cleat may be replaced in the same position with a "Builder Supplied" deck cleat base for attaching two "Optional" cam cleats (cunningham and outhaul) which have fixing hole centres of 27 mm. The two cam cleats may include a bridge and a fairlead with or without rollers on the aft exit.
- d) Control lines shall not be tied to any of the cunningham fairlead, the "Builder Supplied" deck block fitting and the "Optional" blocks attached to it, the cunningham clam cleat or the "Builder Supplied" deck cleat base and the "Optional" cam cleats, cleat bridge and fairleads attached to it.



- ix. Rope loop handles covered with plastic/rubber tube and/or tape may be included anywhere on the free end of a control line.
- x. The free ends of different control lines (except mainsheet) may be tied together and/or tied to any deck fitting or the centreboard, the centreboard handle or a rope loop used to attach a retaining line. Free ends of control lines shall not be tied to shock cord (except mainsheet).
- xi. To secure the mast in the event of a capsize, a loose retention line or shock cord (that will allow 180 degree plus mast rotation) shall be tied/attached between the cunningham fairlead or the deck block fitting and the mast tang or gooseneck. Clips, hooks, shackles and balls may be used to attach the retention line.
- xii. Reference points (marks) may be placed on the deck, spars and ropes.

**(c) Mainsheet – also see Rules 3(a) & 3(b)**

- i. The mainsheet shall be a single line, and be attached to the becket of the aft boom block, and then passed through the traveller block, the aft boom block, boom eye strap, forward boom block and the mainsheet block. After the mainsheet block it shall be knotted, or tied, so that the end of the mainsheet cannot pull through the mainsheet block. The mainsheet shall not be controlled aft of the forward boom block except to facilitate a tack or gybe.
- ii. The tail of the mainsheet may also be knotted or tied to either the base of the mainsheet block, the hiking strap, the hiking strap support line, or the hiking strap shock cord. This option, if used, satisfies the knotting requirement in 3(c)i.
- iii. The mainsheet block may be replaced by any type of single block with or without an internal or attached jamming device, and mounted in the position shown on the measurement diagram. The block may be supported by a spring, ball, plastic tube or tape.
- iv. One mainsheet clam or cam cleat of any type may be mounted on each side deck in the position shown on the measurement diagram.

**(d) Vang – also see Rules 3(a) & 3(b)**

- i. The vang system shall be between the mast tang and the boom key fitting and shall be comprised of the vang cleat block, the vang key block, a maximum of two control lines, loops and/or "Optional" blocks for additional purchase with a **maximum of 7 "Turning Points"**.

- ii. The vang cleat block shall be attached directly to the mast tang, or to an "Optional" swivel that shall be attached to the mast tang.
- iii. A shackle may be used to attach the vang cleat block or the swivel to the mast tang.
- iv. The swivel, shackle or swivel/shackle combination shall not exceed 80 mm in length when measured under tension.
- v. The vang key block may be fitted with a spare key.
- vi. The key may be straight or bent, and it may be held in the key way with either tape, elastic or velcro.
- vii. The vang key block may be replaced with an "Optional" vang key block which may have a spare key.
- viii. "Optional" "single blocks may be attached to one or both sides of the vang cleat block, using a clevis pin or bolt through the attachment hole in the vang cleat block.
- ix. The mast tang hole may be drilled to take a larger pin.
- x. "Builder Supplied" Vang Cleating Fitting
  - a) The vang cleat block may be replaced with a "Builder Supplied" vang cleating fitting which incorporates "Turning Points" and a cam cleat.

These photos show the 2 Class legal "Builder Supplied" vang cleating fittings:



- b) The fitting shall be attached directly to the mast tang.
- c) The fitting shall not be modified in any way.

**(e) Cunningham – also see Rules 3(a) & 3(b)**

- i. The cunningham system shall consist of a maximum three control lines, "Optional" blocks or loops for purchase with a **maximum of 5 "Turning Points"**.
- ii. The cunningham control line shall be securely attached to any of the mast, gooseneck, mast tang, swivel or shackle that may be used to attach the vang cleat block to the mast tang, the cunningham attachment point on the "Builder Supplied" vang cleating fitting or the becket of an optional becket block fixed on the cunningham attachment point on the "Builder-supplied" vang. The cunningham control line shall pass through the sail tack cringle as a moving line. The sail tack cringle shall be at least one of the **maximum of 5 "Turning Points" permitted by Rule 3(ei)**.
- iii. Additional purchases may be obtained using rope loops, "Optional" blocks and using any of the boom, sail tack cringle, gooseneck fitting, mast tang, shackle attaching vang cleat block or swivel, the swivel, or the cunningham attachment point on a "Builder Supplied" vang cleating fitting.
- iv. Deck Block Fitting and Deck Cleat Base

The cunningham control line shall pass only once through the cunningham fairlead or "Optional"

single block attached to the "Builder Supplied" deck block fitting and shall pass only once through the cunningham clam cleat or "Optional" cam cleat attached to the "Builder Supplied" deck cleat base.

**(f) Outhaul – also see Rules 3(a) & 3(b)**

- i. The outhaul system shall consist of a maximum of two control lines, "Optional" blocks or loops for purchase and a **maximum of 6 "Turning Points"**.
- ii. The outhaul control line shall be attached to either the end of the boom, the outhaul fairlead, the sail, or a quick release system, and shall pass through the boom or haul fairlead as a moving line at least once. The outhaul fairlead shall be at least one of the maximum of 6 "Turning Points" permitted by Rule 3(fj).
- iii. Additional purchases may be obtained by forming rope loops in the line or adding "Optional" blocks to the line, and/or using the outhaul fairlead, the outhaul clam cleat, the boom, the mast or gooseneck fitting. An "Optional" block may be attached to the outhaul fairlead, **provided** Rule 3(fj) is also satisfied. An "Optional" block may be attached to the outhaul clam cleat.
- iv. An "Optional" block may be attached to the clew of the sail, or to a quick release system, or be part of a quick release system.
- v. One or two "Optional" blocks may be attached to the gooseneck fitting, or at the mast/gooseneck junction with their "Turning Points" not more than 100mm from the centre of the gooseneck bolt. (The gooseneck may be inverted.) The blocks in this rule may also be attached to the gooseneck with a bolt or a pin.
- vi. A shock cord for use as an inhaul may be attached around the boom immediately in front of the outhaul cleat or to the outhaul cleat and then to the clew of the sail, the clew tie down, the optional block at the clew, the quick release system or through the clew of the sail and to an optional block in the primary control line.
- vii. Shock cord and/or rope loops (rope loops may be part of the control line) can be tied around the boom and/or the outhaul control lines to retain the outhaul lines close to the boom.

**viii. Deck Led Outhaul System**

- a) When led to the deck, the outhaul control line shall pass only once through the cunningham fairlead or the outhaul "Optional" single block attached to the "Builder Supplied" deck block fitting and shall pass only once through the "Optional" cam cleat attached to the "Builder Supplied" deck cleat base.
- b) The boom outhaul clam cleat shall not be removed.

**(g) Clew Tie Down – also see Rules 3(a) & 3(b)**

- i. The clew of the sail shall be attached to the boom by either a tie line or a webbing strap with or without a fastening device wrapped around the boom and through the sail cringle, a quick release system attached to a tie line or soft strap wrapped around the boom, or a "Builder Supplied" stainless steel boom slide with quick



release system. An additional ou haul extension tie line may be added between the clew of the sail and the outhaul or the quick release system.

- ii. If the clew tie down is a tie line, it may be passed through solid balls with holes and/or tubes to reduce friction.
- (h) **Traveller – also see Rules 3(a) & 3(b)**
- i. The traveller shall be a single line. It shall be rigged as a simple closed loop through the traveller eyes and the free end passing through the traveller cleat.
  - ii. A spring, ball or tape may be used between the traveller blocks.

#### 4. SAIL REGISTRATION NUMBERS

**(For Laser Radial and 4.7 sail number positions please see part 4 rule 28(e) and 29(e))**

- (a) For Lasers up to sail number 148199, the sail number is a number moulded into the deck under the bow eye or into the transom, or displayed on a plate attached to the rear of the cockpit.

For Lasers with sail numbers from 148200, the sail number is the number displayed on a unique ISAF Building Plaque attached to the rear of the cockpit.

- (b) All numbers shall be in accordance with the Racing Rules of Sailing except as amended by these rules in respect of type, positioning and minimum dimensions:

Height 300 mm.

Width 200 mm (excluding number 1).

Thickness 45 mm.

Space between adjoining numbers minimum 50 mm.

Sail numbers shall be regularly spaced.

Numbers on the starboard side shall be placed above those on the port side.

Each sail number digit shall be of one colour only.

The sail numbers shall be solid and easy to read.

After 1st March 1998 - sail numbers and national letters shall only be adhesive numbers. The use of permanent ink pens or similar to mark numbers and national letters on the sail is prohibited.

- (c) For sails with numbers above 153000 and sails purchased after 1st June 1993 the sail numbers shall be glued or sewn on each side of the sail, with the bottom of the numbers on the starboard side of the sail placed along a line parallel to and 400 mm (+ or - 12 mm) below the seam at the middle batten pocket. The bottom of the numbers on the port side of the sail shall be placed on a line 400 mm (+ or - 12 mm) below and parallel to the bottom of the numbers on the starboard side of the sail. The starboard sail numbers shall commence 100 mm (+ or - 12 mm) from the leech and the port side numbers shall end 100 mm (+ or - 12 mm) from the leech.

**(Refer to sail number application diagram for procedure for applying sail numbers & letters)**

- (d) Sail numbers from 131000, sails purchased after 1st June 1993 and new sails stamped "New Numbers" shall have numbers that are clearly visible with the last four digits of the number in one dark, distinctive colour or black and any preceding numbers in a different, contrasting, distinctive colour (red is recommended).
- (e) Exceptions to this Rule are permitted:
  - i. when the hull and/or sail are provided by the organisers for an event and after approval of the

International Laser Class Association, the numbers on the sail used for that event only may be single, double or triple digit numbers.

- ii. in the case of a Laser borrowed or chartered for a specific event, and after written approval from the Race Committee, a competitor may use a sail with numbers that are different to the sail number allocated to the hull. The sail number used shall be the sail number allocated to the competitor's own Laser. When the competitor does not own a Laser, the number used on the sail shall be the number of the Laser chartered.
- iii. when a sail is damaged during a series and Rule 7 (c) applies the sail number may contravene Rules 4 (a) and (e) ii only when written permission for a sail number change is given by the Race Committee.

- (f) **National Letters**, if required, shall conform to the same type, size, spacing and requirements as sail numbers (refer rule 4(b), (c), (d) and (e)) and shall be positioned as follows (also see diagrams on pages 25-27):

The letters on the starboard side of the sail shall be placed along the top edge of the seam below the bottom batten pocket (+ or - 12 mm) and on the port side of the sail along a line 400 mm (+ or - 12 mm) below and parallel to the letters on the starboard side. The starboard letters shall commence 100 mm (+ or - 12 mm) from the leech and the port letters shall finish 100 mm (+ or - 12 mm) from the leech. The letters shall all be the same colour, which may be one of the colours of the digits of the sail number, or another distinctive colour.

National Letters shall be required at all World Championships, Regional Championships and events described as international events in the notice of race or sailing instructions. National Letters may be required at any other regatta by the notice of race or sailing instructions.

#### (g) RED RHOMBUS

- i. Sails used in the following women's events shall carry a red rhombus above the top batten pocket on both sides:
  - a. World or regional (continental) championships.
  - b. Events described as "international events" by the Notice of Race or Sailing Instructions.
  - c. Other events that prescribe in the Notice of Race or Sailing Instructions that women competitors should be identified.
- ii. The minimum size and approximate position shall comply with diagram on page 28.
- iii. The rhombus may be retained for racing in other events.

#### 5. MAST

No mast which has a permanent bend shall be used at any time.

#### 6. CLOTHING AND EQUIPMENT

- (a) In alteration of RRS 43.1 (b) the maximum total weight of competitors' clothing and equipment shall be 9 kg (for Laser Radial and 4.7 rigs please see part 4).
- (b) Competitors shall not wear or carry non floating clothing or equipment which in total weight exceeds 500 grammes dead weight except protective sailing clothing.
- (c) For the purposes of weighing clothing and equipment as required by RRS Appendix H three coat hangers may be used instead of a rack.

## 7. SAILING REQUIREMENTS

- (a) The Laser shall be raced with either one or two persons aboard.

When two persons race a Laser they shall race together throughout the entire race or series of races without alternating at the helm.

- (b) No part of the helmsman or crew may be placed forward of the mast while racing.

- (c) Sails

In a series of races a sail shall not be changed for any other unless written permission for an individual change is obtained from the race committee. Written permission shall only be given in the event of a sail damaged beyond repair or damaged to the extent that it cannot be repaired before the start of the next race in a series. In the event of a change the damaged sail shall not be used again in that series even if it is subsequently repaired.

For the purpose of this rule, a series is deemed to be two or more individual races which count towards an overall points total.

## 8. HULL COATINGS

The use of slowly soluble applications which might alter the boundary layer characteristics of the hull are prohibited.

## 9. CLASS ASSOCIATION MEMBERSHIP

No person is permitted to race a Laser in any Fleet, InterFleet, District, or other sanctioned event unless at least one member of the crew is a current member of the International Laser Class Association (a member of a District Laser Association duly established in accordance with the Constitution is a member of the International Laser Class Association).

## 10. ADVERTISING

For the purposes of RRS 80 and ISAF Regulation 20 there are no class prescriptions restricting advertising. Note: For information about placing of advertising on sails, including diagrams, see: [www.laserinternational.org/info/regulation20advertisingcode](http://www.laserinternational.org/info/regulation20advertisingcode)

# PART THREE

## OPTIONS & EXCEPTIONS

### TO PARTS ONE & TWO

## 11. HULL FINISH

- (a) Waxing, polishing and fine wet and dry sanding of the hull is permitted, provided the intention and effect is to polish the hull only. Polishing/sanding shall not be used to remove mould imperfections.
- (b) Sanding and refinishing of the hull with the intention or effect to lighten the hull or improve the performance, finish, materials or shape beyond the original is not permitted.

## 12. TRANSOM DRAIN BUNG

A retaining line may be attached to the transom drain bung and the gudgeon.

## 13. SELF BAILER

A self-bailing device as supplied only by the builder may be added. The bailer may be sealed with tape, filler or glue along its edge where it joins the hull and at the screw hole. Filling the screw hole level with the flat surface of the bailer is permitted. Fairing the flat surface of the bailer to the hull shape or changing the profile of the bailer is not permitted. The drain bung may be removed from the self-bailer, and the self bailer opening pin may be secured to the cockpit floor with self adhesive plastic tape. The builder-supplied o-rings may

be substituted with non builder-supplied alternatives provided the basic function of the bailer is unchanged.

## 14. CENTREBOARD

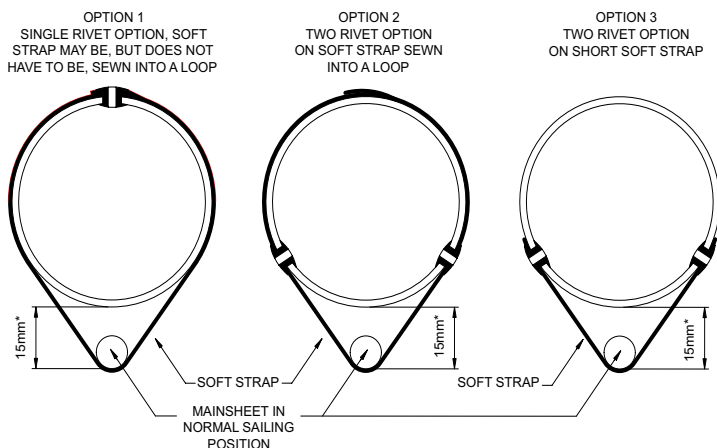
- (a) A rope handle passing through not more than two holes of maximum diameter 12.5 mm above a line drawn from the bottom of the centreboard stop, parallel to the top of the centreboard is permitted. A plastic/rubber tube and/or tape are permitted on the handle of the centreboard.
- (b) The trailing edge of the centreboard may be sharpened by sanding the blade between the trailing edge and a line 100 mm parallel to the trailing edge, provided the distance between the leading edge and the trailing edge of the blade is not reduced.
- (c) Surface refinishing of the centreboard is permitted provided the original shape, thickness and characteristics are not altered.
- (d) One layer of any material of maximum 2mm thickness and of a maximum size of 30mm x 30mm may be applied at the top front corner of the centreboard case.
- (e) A wood centreboard shall not be used on a hull that was originally supplied with a non wood centreboard.
- (f) A tie line or shock cord shall be attached to the small hole in the upper forward corner of the centreboard, and any of the bow eye, the cunningham fairlead, the "Builder Supplied" deck block fitting and the mast to prevent loss of the centreboard in event of a capsizing. The tie line or shock cord may be looped around the bow, but shall not be attached to the gunwale. Attachment can be by knots or loops in the shock cord, and/or tie lines, shackles, clips, hooks or eyes. When the shock cord is attached to the bow eye it may also pass through an attachment to the "Builder Supplied" deck block fitting or the cunningham fairlead.
- (g) The components of the "Builder Supplied" centreboard stopper may be secured together by glue, screws, bolts, nuts and washers, provided the original shape and dimensions are not reduced.

## 15. RUDDER

- (a) The trailing edge of the rudder blade may be sharpened by sanding the blade between the trailing edge and a line 60 mm parallel to the trailing edge, provided the distance between the leading edge and the trailing edge of the blade is not reduced.
- (b) Surface refinishing of the rudder blade is permitted provided that the original shape, thickness and characteristics are not altered.
- (c) The rudder blade and/or rudder head holes may be enlarged up to a maximum diameter of 10mm. The rudder bolt and bush set may be replaced with a larger diameter bolt to fit this hole. The bolt head, nut and washers shall fall within a 20mm diameter circle.
- (d) To achieve the maximum 78 degree rudder angle relative to the bottom edge of the rudder head, the leading edge of the blade may be cut away where it touches the spacing pin.
- (e) To restrict the rudder angle to maximum 78 degrees relative to the bottom edge of the rudder head, the lower forward spacing pin shall be wound with flexible adhesive tape.

- (f) The rudder pintles may be fitted with spacers to lift the rudder head to allow the tiller to clear the deck at the transom.
- (g) The rudder downhaul line may have multiple purchases.
- (h) A hole may be drilled in the top rudder pintle and a pin or clip inserted in the hole to prevent loss of the rudder.
- (i) A wood rudder shall not be used on a hull that was originally supplied with a non wood rudder.
- (j) The rudder shall be maintained in the full down position except whilst racing in water less than 1.5m deep unless otherwise specified in the sailing instructions.
- 16. TILLER**
- (a) The tiller and tiller extension are not restricted in any way except that the tiller:
- shall be capable of being removed from the rudder head.
  - shall be fitted with a cleat, hook, pin or eye to secure the downhaul.
  - shall, except for normal wear caused by the traveller rope, be straight along its topmost edge between a point 30 mm in front of the forward edge of the rudder head and the cockpit end of the tiller.
- (b) The tiller may be fitted with an "anti wear" strip or tube of not more than 200 mm in length placed above the level of the straight edge required by 16 (a) iii and only where the traveller crosses the tiller.
- (c) The use of a tiller retaining pin is optional.
- 17. HIKING STRAP**
- (a) The hiking strap may be substituted with any type of non-stretch material and it may be padded.
- (b) The hiking strap may be fixed to the cockpit at the forward end by wrapping the strap around the mainsheet block plastic pressure plate or by using both the centreboard friction attachment plate and the mainsheet block plastic pressure plate.
- (c) The hiking strap supporting line between the aft end of the hiking strap and the eye straps on the aft face of the cockpit may be rigged in any manner so that the hiking strap is fixed or adjustable.
- (d) A shock cord may be attached between the aft end of the hiking strap and to either the traveller cleat, or the hiking strap eye straps at the aft end of the cockpit.
- 18. BOOM**
- (a) A metal sleeve supplied by the builder of maximum length 900 mm may be fixed inside the boom. The sleeve shall not extend aft of the point 1220 mm from the front end of the boom (including plug).
- (b) The stainless steel mainsheet eye strap between the two blocks on the boom may be replaced with a soft strap. The maximum width of the soft strap shall be 26mm. The soft strap shall only be fixed to the boom using the holes drilled by the builder as shown in the diagram below.
- 19. MAST**
- (a) To prevent abrasion of the mast step, a tube or collar of uniform thickness not exceeding 1 mm may be placed around the entire circumference of the lower mast or the mast step cavity. The tube or collar shall not extend more than 10 mm above deck level.
- In addition, a disc of uniform thickness not exceeding 1mm in thickness may be placed in the bottom of the mast step.
- (b) The mast or mast cavity may be lubricated.
- (c) Tape or other bushing material may be applied to both the plastic end cap, the collar of the upper mast and the upper mast to ensure a snug fit. The

Diagram for Rule 18(b)



NOTES:

- 15mm DIMENSION MARKED \* IS NOMINAL
- HOLES FOR OPTIONS 2 AND 3 ARE POSITIONED TO FIT THE ORIGINAL STAINLESS STEEL EYE STRAP
- NO BOOM SHALL BE DRILLED WITH THREE HOLES AT THE BOOM STRAP POSITION



tape or bushing material may only be used on that portion of the plastic parts that actually slide into the lower section and/or between the upper mast and the collar and it shall be a uniform thickness around the circumference. Taping or bushing material above the collar to fair the collar into the mast is prohibited.

- (d) Flexible adhesive tape may be applied to the outside of the joint of the upper and lower mast sections to a limit of 40mm above and below the joint to prevent rotation of the mast sections at the joint.

## 20. INSPECTION PORTS

Inspection ports not exceeding 153 mm internal diameter may be installed on the deck or in the cockpit to provide access to the hull cavity, provided that any inspection port is fitted with watertight threaded covers (any bayonet mounted parts are deemed to be not threaded).

Storage receptacles are permitted underneath hatch covers.

## 21. CLIPS AND STORAGE BAGS

Clips, ties or bags to stow or secure safety or other equipment may be used on the deck, in the cockpit, around the mast or boom.

## 22. COMPASS

(a) One compass is permitted mounted on any part of the deck or the cockpit, provided that the hull cavity is not pierced by anything other than the fasteners. Compasses shall not be fitted to inspection ports. Electronic and digital compasses are prohibited (see exception in part d).

(b) Any use of electronic equipment not specifically allowed in the rules is prohibited unless modified in the sailing instructions.

(c) Timing devices are permitted.

(d) A timing device that includes an electronic compass is permitted as long as it is worn on the wrist.

## 24. TAPE AND LINE

The use of flexible adhesive tape or similar or line is permitted to secure shackle pins and clips, and to bind sheets, control lines and rigging, except that tape or line shall not be used to construct new fittings or modify the function of existing fittings.

## 25. SAFETY EQUIPMENT

Any additional equipment required by an international, national or other governing authority for safety purposes may be fitted or carried provided it is not used in contravention of the FUNDAMENTAL RULE.

## 26. REPAIRS AND MAINTENANCE

(a) Repairs and preventative maintenance to the sail, hull, deck, centreboard, rudder, mast, boom or any fittings and fixings may be carried out without violation of these Rules provided such repairs are made in such a way that the essential shape, characteristics or function of the original are not affected.

(b) In the event of the failure of any fittings, or the replacement of fittings as authorised by these Rules, the fitting or the replacement shall be the same type as the original and shall be placed in a position conforming to the Measurement Diagrams.

(c) Preventative maintenance shall include the replacement of fastenings with alternatives and the reversing of spars provided that the fittings are replaced in accordance with the Measurement Diagrams (tolerances shall not be used to alter the position of fittings) and that any holes in the top section of the mast are permanently sealed

with a rivet or similar to maintain the buoyancy of the mast.

- (d) Sail panels and luff sleeves shall not be replaced.
- (e) Any flotation equipment (flotation foam blocks or Cubitainer inserts) that is defective or has been removed shall be replaced by fully air filled, builder supplied, Cubitainer inserts which shall have an equal volume to the defective or removed flotation equipment.
- (f) The use of lubricants is unrestricted except that they shall not be used on the hull (below the gunwales).

## 27. REEFING

The sail may be reefed by rolling the sail around the mast 1 or 2 times.

# PART FOUR LASER RADIAL RIG AND LASER 4.7 RIG OPTIONS

Part 4 of the Laser Class Rules shall be read in conjunction with the remainder of the Laser Class Rules.

When the Laser Radial or the Laser 4.7 rigs are used the Rules of Parts 1, 2, 3 and 5 of the Laser Class Rules apply except where specifically amended by Part Four.

## 28. LASER RADIAL

(a) The Laser Radial sail and bottom mast as supplied by a licensed Builder shall conform to the measurement diagrams which form part of these Rules.

(b) The Laser Radial rig may be used in any Laser regatta subject to the conditions in 28 (c) and any restrictions in the Notice of Race and Sailing Instructions.

(c) The Laser Radial rig may only be used in District Championships and higher level regattas when prescribed in the Notice of Race and Sailing Instructions.

(d) In a series of races a Laser Radial rig shall not be changed for a Laser or Laser 4.7 rig. A series is 2 or more races that count towards an overall points total.

(e) SAIL REGISTRATION NUMBERS & NATIONAL LETTERS

Rules 4(c) and (f) shall be amended to read as follows:

4(c) For Laser Radial sails with numbers above 153000 and sails purchased after 1st June 1993 the sail numbers shall be glued or sewn on each side of the sail, with the bottom of the numbers on the starboard side of the sail placed along a line parallel to and 400 mm (+ or - 12 mm) below the underside of the middle batten pocket. The bottom of the numbers on the port side of the sail shall be placed on a line 400 mm (+ or - 12 mm) below and parallel to the bottom of the numbers on the starboard side of the sail. The starboard sail numbers shall commence 100 mm (+ or - 12 mm) from the leech and the port side numbers shall finish 100 mm (+ or - 12 mm) from the leech.

*(Refer to sail number application diagram for procedure for applying numbers & letters)*

4(f) **National Letters**, if required, shall conform to the same type, size, spacing and requirements as sail numbers (refer rule 4(b), (c), (d) and (e)) and shall be positioned as follows (also see diagram):

The top of the letters on the starboard side of the sail shall be placed on the bottom edge of the bottom batten pocket and its extension (+ 12 mm).

The starboard letters shall commence 100 mm (+ or - 12 mm) from the leech. The bottom of the letters on the port side shall be placed on a line 400 mm (+ or - 12 mm) below and parallel to the bottom of the letters on the starboard side of the sail. The port letters shall finish 100 mm (+ or - 12 mm) from the leech. The letters shall all be the same colour, which may be one of the colours of the digits of the sail number, or another distinctive colour.

National Letters shall be required at all World Championships, Regional Championships and events described as international events in the notice of race or sailing instructions. National Letters may be required at any other regatta by the notice of race or sailing instructions.

**(f) CLOTHING AND EQUIPMENT**

Rule 6(a) shall be amended to read as follows:

**6(a)** For the purposes of RRS 43.1 (b) the maximum total weight of competitors clothing and equipment shall be 9 kg.

**29. LASER 4.7**

**(a)** The Laser 4.7 sail and bottom mast as supplied by a licensed Builder shall conform to the measurement diagrams which form part of these Rules.

**(b)** The Laser 4.7 rig may be used in any Laser regatta subject to the conditions in 29 (c) and any restrictions in the Notice of Race and Sailing Instructions.

**(c)** The Laser 4.7 rig may only be used in District Championships and higher level regattas when prescribed in the Notice of Race and Sailing Instructions.

**(d)** In a series of races a Laser 4.7 rig shall not be changed for a Laser or Laser Radial rig. A series is 2 or more races that count towards an overall points total.

**(e) SAIL REGISTRATION NUMBERS**

Rules 4(b), 4(c) and 4(f) shall be amended to read as follows:

**4(b)** On Laser 4.7 sails all numbers shall be in accordance with the Racing Rules of Sailing and shall be of the following minimum dimensions:

Height 220 mm.

Width 150 mm excluding No.1.

Thickness 30 mm.

**Note: Optimist Class legal numbers conform to this rule.**

**The maximum height to conform is 240mm.**

Space between adjoining numbers / letters and rows minimum 30 mm.

Sail numbers shall be regularly spaced.

Numbers on the starboard side shall be placed above those on the port side.

Each number digit shall be one colour only.

The numbers shall be solid and easy to read.

**4(c)** For Laser 4.7 sails with numbers above 153000 and sails purchased after 1st June 1993 the sail numbers shall be glued or sewn on each side of the sail, with the bottom of the starboard numbers placed along the top edge of a line placed 270mm (0 to +12mm) below and parallel to the seam below the bottom edge of the middle batten pocket. The port side numbers shall be placed along a line 270mm below and parallel to the bottom of

the starboard side numbers. The starboard side numbers shall commence 100 mm (+ or - 12 mm) from the leech and the port side numbers shall end 100 mm (+ or - 12 mm) from the leech.

**(Refer to sail number application diagram for procedure for applying numbers & letters)**

**4(f)** National letters, if required, shall conform to the same type, size, spacing and requirements as Laser 4.7 numbers (refer rule 28 (e) 4 (b)).

For all Laser 4.7 sails with numbers from 190000, and for sails purchased from 1 April 2006 onwards, The bottom of the starboard side letters shall be placed along a line 270mm (+12mm) below and parallel to the bottom of the numbers on the port side and start 100mm (+ or -12mm) from the leech. The bottom of the letters on the port side shall be placed along a line 270mm (+12mm) below and parallel to the bottom of the letters on the starboard side and finish 100mm (+ or -12mm) from the leech.

For Laser 4.7 sails with numbers under 190000 that were purchased before 1 April 2006, they may be placed as above or along the same line, 270mm below and parallel to the bottom of the numbers on the port side, on opposite sides of the sail. The letters on the port side shall be closer to the leech than those on the starboard side, with the port side letters finishing 100mm (+ or - 12mm) from the leech.

National Letters shall be required at all World Championships, Regional Championships and events described as international events in the notice of race or sailing instructions. National Letters may be required at any other regatta by the notice of race or sailing instructions.

The letters shall all be the same colour, which may be one of the colours of the digits of the sail number, or another distinctive colour.

**(f) MAST**

Rule 5 shall be amended to read as follows:

**5** The Laser 4.7 bottom mast is supplied with a pre-bend aft of approximately 5 degrees. The pre-bend shall not be increased or decreased. No top mast that has permanent bend in it shall be used at any time.

**(g) CLOTHING AND EQUIPMENT**

Rule 6(a) shall be amended to read as follows:

**6(a)** In alteration of RRS 43.1 (b) the maximum total weight of competitors clothing and equipment shall be 8 kg.

## PART FIVE

### 30. AMENDMENTS

Amendments to these Rules shall be approved by each of:

- (a)** the World Council,
- (b)** the Advisory Council,
- (c)** at least two thirds of the membership replying in writing to the International Office of the Class in response to a postal ballot published by the International Office of the Class. Only those postal votes returned to the International Office within 6 months from the date of publication of the rule change shall be valid, and
- (d)** the ISAF.

# Class Rule Interpretations

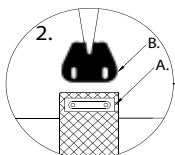
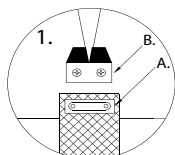
1. **Fastenings** (Rule 26(c)) shall include screws, bolts, nuts, washers and rivets.
2. **Rudder blade head thickness:** Interpretation to Rule 15 Rudder and Rule 26(a) Repairs: Padding of uniform thickness may be used to fill the gap between the rudder blade and the rudder head provided that the padding covers completely the part of the rudder blade that comes into contact with the rudder head and that the thickness of the rudder blade plus the padding does not exceed 20.3mm.
3. **Traveller control lines & fittings** (Rule 3(b)ii): The most forward part of the triangle that forms the traveller is regarded as load-bearing and may have a splice at that point (see Fig 1).



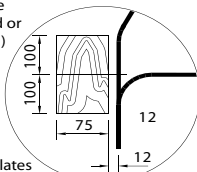
Fig 1

## Measurement Diagrams

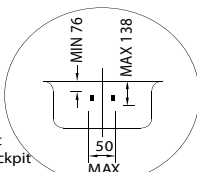
All dimensions shown in millimetres  
Measurements are shown only as a guide to replacement in the event of failure



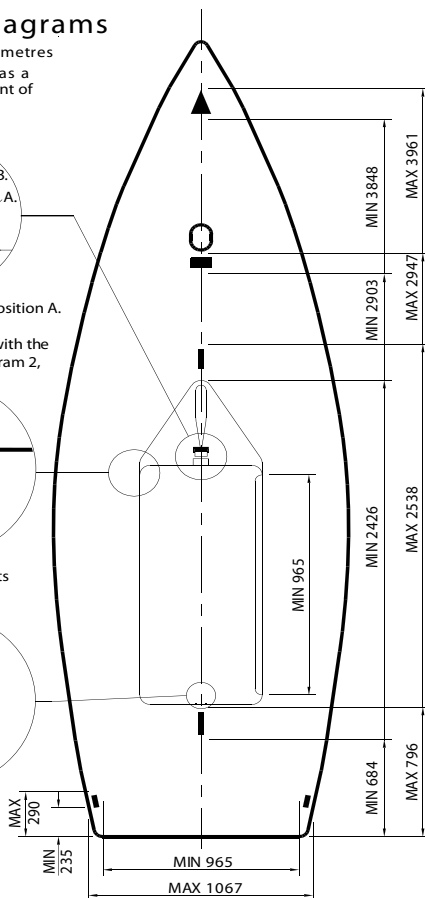
Mainsheet block shall be attached to eyestay in position A.  
Centreboard Brake shall be attached in position B.  
Centreboard Brake in diagram 1 may be replaced with the builder supplied Centreboard Brake shown in diagram 2, available mid/late 2009 (see December 2008 LaserWorld or [www.laserinternational.org](http://www.laserinternational.org))



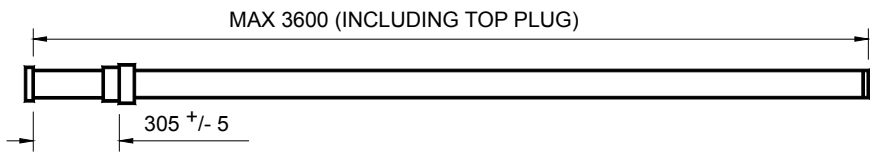
Wooden backing plates are under the deck for the fitting of cam or clam cleats



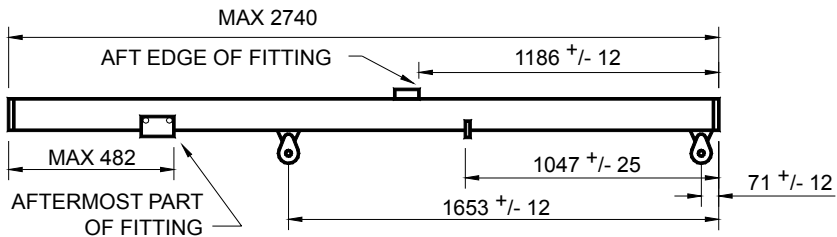
Eyes at aft end of cockpit



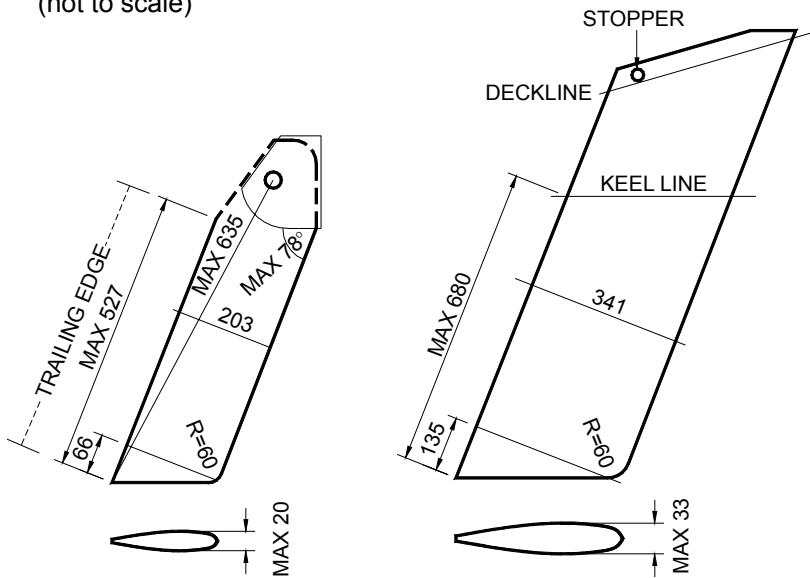
LASER, LASER RADIAL & LASER 4.7 MAST TOP SECTION

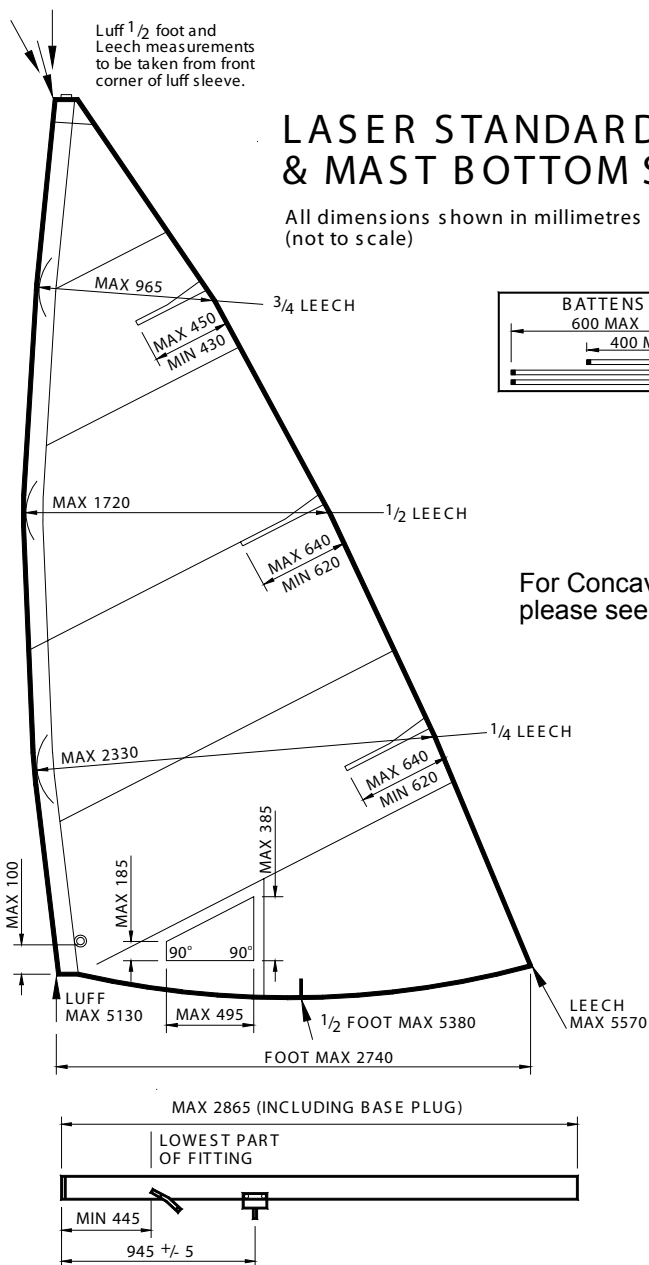


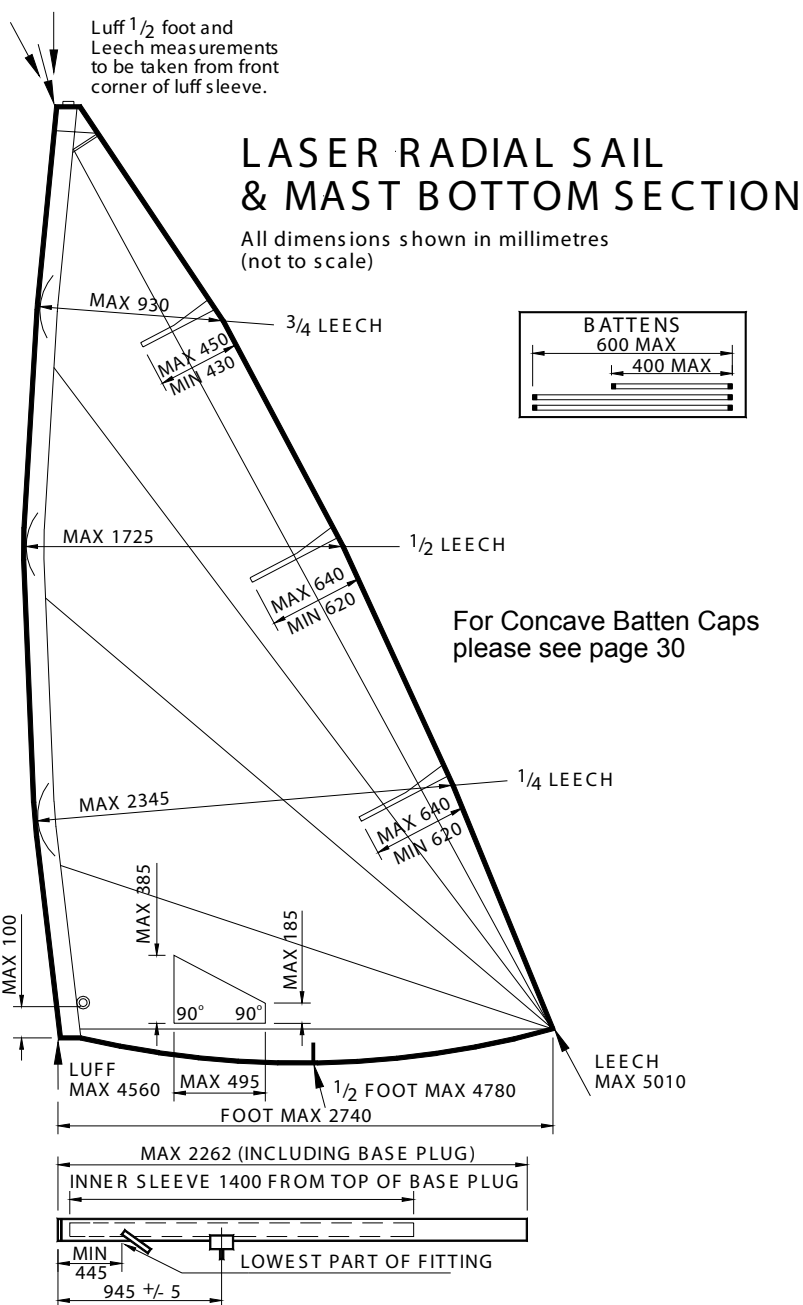
LASER, LASER RADIAL & LASER 4.7 BOOM



All dimensions shown  
in millimetres  
(not to scale)



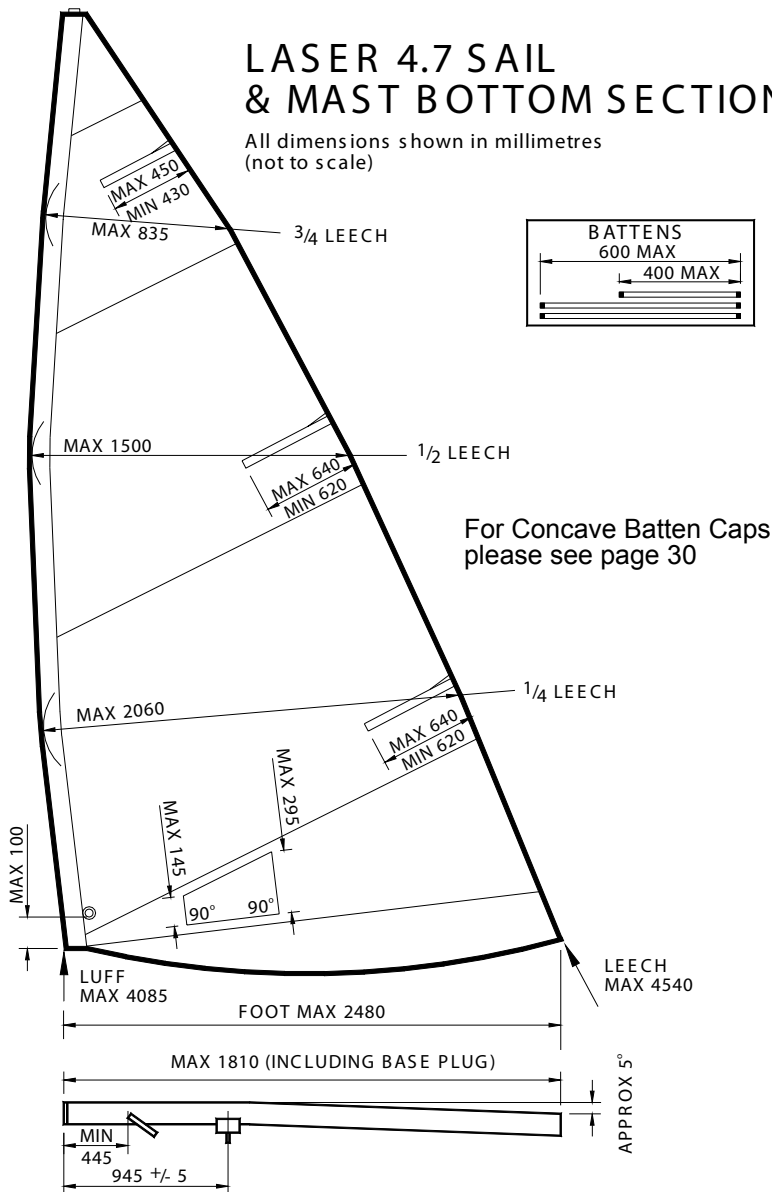




Luff and Leech measurements  
to be taken from front corner  
of luff sleeve.

## LASER 4.7 SAIL & MAST BOTTOM SECTION

All dimensions shown in millimetres  
(not to scale)



# ILCA By-Law 2: District General By-Law

## 1. NAME

The name of the District Association shall be the (Name or Geographic Designation) ..... Laser Association and it shall have its offices at Address ..... in the City of .....

## 2. OBJECTS

The objects of the District Association are

- (a) to provide a medium of exchange of information among Laser Sailors in the District;
- (b) to promote and develop Laser Class racing within this District;
- (c) to encourage and foster the enjoyment of the sporting and recreational aspects of sailing through the development of fleets within the District; and
- (d) to co-ordinate the activities of this District with other Districts within the Region.

## 3. FLEET CHARTERS

- (1) A fleet may be granted a Fleet Charter upon application to the District Association by six or more persons who are members of the International Laser Class Association and who are individual owners of Lasers within an area or club deemed appropriate having regard to locality where regular racing activity is easily accessible to members of that Fleet.
- (2) Notwithstanding Paragraph (1), a special Fleet may be chartered in any locality for the purposes of accommodating specific members of the armed forces, an educational institution, a junior programme or any other non-profit organisation.
- (3) A Fleet Captain, and such other officers if any as the Fleet may deem necessary, shall be elected annually from among the members of the Fleet in such manner as is prescribed by the Fleet, unless otherwise provided by a By-Law of the District Association, and shall be responsible to the District Association for the organisation of the Fleet and the due compliance by the members of the Fleet with the provisions of the Constitution and By-Laws of the Association.

## 4. ASSOCIATION OFFICERS

The District Association shall be comprised of a

- (a) District Chairman who shall be responsible for the co-ordination of all activities of the District Association within the District, shall represent the District at Annual Meetings of the Region in accordance with the Constitution of the International Laser Class Association, shall chair all Annual Meetings of the District Association, and shall otherwise perform the normal functions of the senior officer within the District;
- (b) District Vice Chairman who shall act in the place instead of the Chairman in the event of his inability or refusal to act and in addition he shall be the Sailing Secretary of the District and be responsible for the development of District racing programmes of all kinds, the supervision of sanctioned events, and co-ordination with other Sailing Secretaries of all inter-District racing;

- (c) District Secretary who shall be responsible for maintaining all membership and other records and correspondence of the District Association, the preparation of the District Newsletter, if any, and shall otherwise carry out such responsibilities as may be assigned to him by the District Chairman;
  - (d) District Treasurer who shall be responsible for determination of the entitlement of applicants to membership in accordance with Paragraph 10 of the Constitution, the collection of dues to be levied for membership in accordance with Section 11 of the said Constitution, the maintenance of all accounts to the District membership thereon and preparation of an annual financial statement for the membership; and
  - (e) District Measurer, if one is appointed by the Chief Measurer of the International Laser Class Association, who shall carry out the responsibilities set for him in subparagraph (6) of paragraph 8 of the Constitution.
5. The District Association may appoint such additional officers to perform such duties or to carry out such special projects as may from time to time be determined by the District Association and they shall hold office for such term as it may determine.
6. The District Association may appoint such committees, as may be deemed appropriate from time to time to carry out the functions and duties as are prescribed by the District Association; and the District Chairman shall be a member ex-officio of any committee so established.
- ## 7. ANNUAL MEETINGS AND ELECTION TO OFFICE
- (1) The District Association shall hold an Annual Meeting at such time as may be determined by resolution of the District Association, but not later than fifteen months from the date of the last Annual Meeting.
  - (2) Notice of the Annual Meeting shall be sent to all members of the District Association not less than fourteen days prior to the Meeting and such notice shall include:
    - (a) an agenda for the said Meeting,
    - (b) a notice of any special By-Law whether to amend the District General By-Law or to enact any other By-Laws,
    - (c) a summary of the annual reports of the District Chairman and the Treasurer, and
    - (d) a report of the nominating committee, if any, for the election of officers for the ensuing year.
  - (3) Any member of the District Association shall be entitled to attend the Annual General Meeting and to vote thereat.
  - (4) A majority of members voting in favour of a resolution at the Annual Meeting shall be sufficient, except for resolutions which report to amend the District General By-Law or to enact any other By-Law which shall require a two-thirds majority thereof to be effective.
  - (5) Officers of the Association elected at an Annual General Meeting of the Association shall hold office until their successors are elected.



## 8. FEES

The annual fees of the District Association shall be payable to the Association not later than the first day of March in any year or such other day as the District Association shall by By-Law determine, provided that no person may race a Laser in any event after the last date for payment shall fall due unless the said dues have been fully paid and he shall be a member of the International Laser Class Association as required by the Class Rules.

## 9. DISTRICT CHAMPIONSHIPS

- (1) The District Association shall annually sponsor a District Championship sailing event which shall be open to any member of the District Association to be held at such place within the District as the District Association shall determine.
- (2) The District Championship event shall be conducted in accordance with the provisions of the Racing By-Law passed by the World Council.

## 10. BY-LAWS

The District Association may make By-Laws for the purpose of carrying out the objects of these General By-Laws and, without restricting the generality of the foregoing, may make By-Laws

- (1) determining the fiscal year of the District Association;
- (2) determining the period within which the Annual General Meeting must be held;
- (3) establishing nominating committees and methods of formation thereof;
- (4) subject to any By-Law of the International Laser Class Association, respecting the conduct of any regatta within the District and the eligibility of members for major racing events;
- (5) respecting the acceptance of deeds of gift of trophies;
- (6) changing the Head Office of the District;
- (7) respecting the conduct of the business of the District;
- (8) giving effect to the provisions of any local or general public law having application in the District enacted by any governmental body having jurisdiction;
- (9) respecting the organisation, constitution, and operation of fleets within the District; and
- (10) respecting the constitution and eligibility for committees including nominating committees.

## 11. COMING INTO FORCE

- (1) This By-Law comes into force
- (a) in respect of any District established by the World Council prior to the first day of November 1973, on the said date; and
- (b) in respect of any District established on or after the first day of November 1973, on the date of the By-Law of the World Council establishing such District pursuant to provisions of Section 8 of the Constitution.
- (c) The World Council upon establishing a District shall designate the name of the District and the location of the offices thereof and may, in addition, approve any addition to the said District General

By-Law as may be required to meet the laws of such District or any special circumstances, provided such additions are not inconsistent with the provisions of the Constitution or this By-Law.

# ILCA By-Law 3: Measurement

1. If a protest is lodged against a yacht alleging that there has been an alteration or addition thereto not permitted by the Rules of the Class, and the Race Committee, on investigation, is in doubt as to whether a violation of the Rules has occurred, it shall measure the part of yacht subject to protest in accordance with paragraph 2.

### 2. (a) Hull

The part of the hull of the yacht subject to protest shall be measured in accordance with the measurement directions attached as Schedule A and the same part of not less than five (5) other Lasers, chosen by the Race Committee as random samples, shall be measured in the same manner. The Race Committee shall select, if possible, Lasers which show no evidence of having been repaired or altered and which do not have inspection ports.

The arithmetic mean of the measurements of the boats chosen as the sample shall be calculated, and he protested yacht shall be disqualified if the difference between the mean value so determined and the measurement on the yacht subject to protest shall exceed the following values for the measurements indicated:

any point along the keel line (rocker): 2 mm  
any other area of the hull: 3 mm

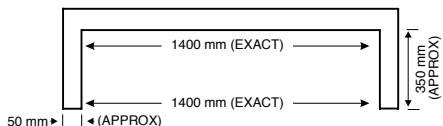
### (b) Equipment

If any mast, boom, fitting, centreboard or rudder is the subject of a protest as to size, shape or location, measurement thereof shall be governed by the drawings and tolerances set forth in the Measurement Diagrams (Ref: By-Law 1 - Rules)

3. This By-Law shall be read and construed in conjunction with the Rules of the International Laser Class Association and the Interpretation of the Chief Measurer, and may be amended by the World Council with the approval of the International Sailing Federation.

## Schedule A to By-Law 3

### 1. Measurement Template



### 2. Measurement of Hull

Turn boat upside down. Starting at the transom, measure out a distance along the keel line and establish point A, which will fall roughly athwartships of point X, the area under protest.

Lay a straight edge across the transom as shown in the

sketch and measure out a distance along the vertical surface of the gunwale and establish point B, which will fall approximately in line with the measured point on the keel line (A) and the area under protest (X). Distances shown are as an example only.

The centre line of the boat must then be established at point A. This will be easy in the front one third of the boat but, to find the centre line in the aft two thirds, stretch a string over the centre of the centreboard opening and the centre of the bailer depression and extend fore and aft, as necessary. Mark the centre line at point A. Now measure from point A to point X and retain this figure to establish an equal point of measurement on the five random sample boats.

Place the centre of the measurement template on point A (Diagram 2), line up the vertical arms with points B and equalise exactly the distance from the horizontal bar to the inside of the gunwale on each side of the boat.

Measure the shortest distance from point X up to the horizontal bar and record this measurement (96 mm in example).

This procedure should now be repeated using all the distances established above and a similar reading obtained for the distances from the hull to the horizontal cross bar on the other five sample boats.

Example: Measurements on 5 sample boats:

$$93 + 94 + 94 + 97 + 96 = 474$$

$$\text{Arithmetic mean} = 474/5 = 94.8$$

$$\text{Measurement on protested boat} = 96$$

Diagram

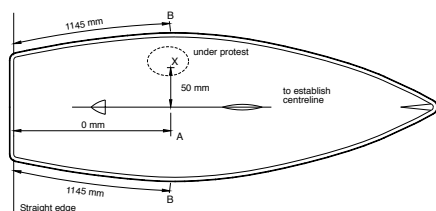
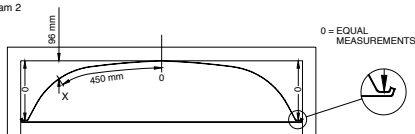


Diagram 2



$$\text{Difference} = 1.2$$

This does not exceed mean value by more than 3 mm, therefore protest is disallowed.

### Measurement of Rocker

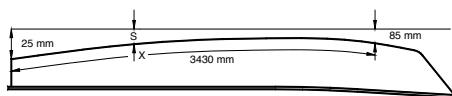
Turn boat upside down. Measure out a distance of 3430 mm along the keel line of the boat.

Set up a taut string over the centre line of the boat exactly 125 mm above the keel at the transom and 85 mm above the keel at 3430 mm from the transom.

Measure distance along keel to point under protest (point X) and retain this figure to establish an equal point of measurement on the five sample boats.

Measure the shortest point from point X to the string and then repeat procedure with five sample boats.

Calculate arithmetic mean of the measurements from the five sample boats. Point under protest should not



deviate by more than 2 mm.

## ILCA By-Law 4: District Measurers

1. The responsibilities of the District Measurer and any assistant shall include:

(a) generally, ensuring that throughout the District, the principles of the Rules are understood and complied with;

(b) National and District championships and other events designated by the District Chairman as requiring the attendance of the District Measurer:

(i) perform a pre-race inspection following ILCA standard procedures of boats to be sailed in such event and report to each owner and to the Race Committee Chairman the owner and number of any boat which, if sailed in such event, would violate the Rules and be subject to protest and submit a written summary report of each event to the ILCA Chief Measurer within 2 weeks of the championship ending;

(ii) assist the Race Committee at such event, upon request, with any protests to which the Measurement By-Law applies;

(iii) issue interim rulings respecting the Rules, not previously the subject of an Interpretation of the Chief Measurer, provided that such interpretation shall be committed to writing following such event and submitted to the Chief Measurer for confirmation or variation as he shall see fit. Any such interim interpretation shall be binding and valid for the event for which it shall have been issued.

(c) carry out such additional responsibilities (as a member of the Executive of the District Association) as may be assigned to him.

(d) to make an annual report to the ILCA Chief Measurer on his measurement and inspection that has taken place in the year.

2. No person shall be nominated for the position of District Measurer unless he has displayed, to the satisfaction of the District Chairman and Sailing Secretary:

(a) a thorough appreciation of the Constitution of the Laser Class;

(b) an appreciation of the principles as set forth in Part 1 of the Rules;

(c) a thorough knowledge of the Rules, the Interpretations issued thereunder and the Measurement By-Law of the Class, including the ability to carry out measurements in accordance with the Measurement By-Law; and

(d) that he is a person who maintains his Laser in a condition which does not violate any of the Rules of the Class and whose attitude towards the

enforcement of the Rules has been and is likely to be, beyond reproach.

3. The position of District Measurer is limited to a two year period, after which he existing Measurer can be re-proposed or an alternative proposed by the District Chairman as set out in point 4 below.
4. The District Chairman, upon satisfying himself in respect of the items set forth in paragraph 2 above, shall submit the recommendation for the appointment of the District Measurer to the Executive Secretary of the World Council or the Regional Council.
5. The Executive Secretary shall forthwith communicate the recommendation to the Chief Measurer and shall confirm the appointment, following certification, if the same is approved.
6. District Measurers, with the approval of the District Chairman, may appoint assistant District Measurers from time to time, who meet the requirements of paragraph 2, for the purpose of attending a sanctioned or other event designated as requiring the presence of the District Measurer. Such appointment shall be for one specific event.

## ILCA By-Law 5: Sanctioned Events and Honour Awards

### SANCTIONED EVENTS

1. The following events shall be deemed to be Sanctioned Events for the purposes of the Constitution, the Rules and the By-Laws of the Association:
  - (a) World Championship events;
  - (b) Regional Championship events approved by the World Council, including the North American, European, Central & South American and the Asian Pacific Championship, whether or not a Region has been established;
  - (c) Multi District events (other than district, regional or World Championship) including North American Midwinters, Canadian, US, Nordic, Australian and Middle East Championships;
  - (d) District Championship events, including District Ladies' Championship, District Junior Championship;
  - (e) Such other events as may be designated by the World Council or a Regional Executive Committee, as the case may be.
2. Any Sanctioned Event shall be conducted in accordance with the provisions of the Racing By-Law.
3. Honour Awards and Trophies shall only be given if sufficient entries take part in each category in a regatta according to the following table:

5-9	Entries	1 award/cube
10-19	Entries	2 awards/cubes
20-29	Entries	3 awards/cubes
30-39	Entries	4 awards/cubes
40+	Entries	5 awards/cubes

### HONOUR AWARDS

#### Sail Awards

4. Every member shall be entitled to apply to his sail the symbol earned by him racing in a Sanctioned Event, in accordance with the following schedule:

#### World Championships

Winner	3 Chevrons
Series 2nd & 3rd place finishers	2 Chevrons
Each daily 1st place finisher	1 Chevron
Series 4th & 5th place finishers	1 Chevron

#### Regional Championships

(which may be known as "Bar Events")

Winner	3 Bars
Series 2nd & 3rd place finishers	2 Bars
Each daily 1st place finisher	1 Bar
Series 4th & 5th place finishers	1 Bar

#### Multi District Events

(which may be known as "Medallion Events")

Winner	3 Medallions
Series 2nd & 3rd place finishers	2 Medallions
Each daily 1st place finisher	1 Medallion
Series 4th & 5th place finishers	1 Medallion

#### District Sanctioned Events

(which may be known as "Diamond Events")

Winner	3 Diamonds
Series 2nd & 3rd place finishers	2 Diamonds
Each daily 1st place finisher	1 Diamond
Series 4th & 5th place finishers	1 Diamond

5. A member may carry on his sail only one award, which shall be the highest award won at any time by such member; it being understood that the highest awards are Chevrons, Bars, Medallions and Diamonds in that order.
6. (a) The symbols representing the sail awards shall be glued on or sewn to each side of the sail in the third panel from the top of the sail, with the first award being placed in the uppermost position as specified in Schedule A.
- (b) The symbols shall be in red for events which are not restricted, green for events restricted to women, blue for events restricted to juniors, and light blue for events restricted to Masters (35 years and over). A Masters event may be split into 4 categories: Great Grand Masters (aged 65 and over), Grand Masters (55-64 years), Masters (45-54 years) and Apprentices (35-44 years) in which case honour awards and cubes may be awarded for each category. The minimum number of entries at a Championship in the Great Grand Masters category shall be 5; if the entries are less than the minimum the Great Grand Masters shall be scored with the Grand Masters. Determination of category for Masters shall be the age attained on the day before the first scheduled race of a regatta.

7. Sail awards shall be retroactive to all North American, European and District Championships organised at any time and publicised and known as such; and any dispute as to whether any event heretofore qualifies as a Regional or District event herein shall be settled by the World Council on application for interpretation made to the Executive Secretary.

Cube inscribed with 3 Medallions  
Series 2nd & 3rd place finishers  
Cube inscribed with 2 Medallions  
Series 4th & 5th place finishers  
Cube inscribed with 1 Medallion

### District Events ("Diamond Events")

Winner

Cube inscribed with 3 Diamonds

Series 2nd & 3rd place finishers

Cube inscribed with 2 Diamonds

Series 4th & 5th place finishers

Cube inscribed with 1 Diamond

9. Any member who has earned a Laser cube in any event to which paragraph 3 applies shall be entitled, if available, to order such cube upon application to the Executive Secretary with particulars of the event, time and location; provided that such application shall be certified by the District Sailing Secretary or the Race Committee Chairman of such event. The insurance of the retroactive trophies shall be at the expense of the person applying therefore; the cost of the cube shall be determined from time to time by the World Council.
10. In the event of the disposition of a sail, the person holding a sail award shall cause the same to be removed from the sail prior to such disposition.
11. The cubes referred to in paragraphs 7 and 8 may be changed in style and design from time to time by the World Council.

### Trophies

8. Every member shall be entitled to receive a Laser cube, in accordance with the following schedule:

#### World Championship

Winner

Cube inscribed with 3 Chevrons

Series 2nd & 3rd place finishers

Cube inscribed with 2 Chevrons

Each daily 1st place finisher

Cube inscribed with 1 Chevron

Series 4th & 5th place finishers

Cube inscribed with 1 Chevron

#### Regional Events ("Bar Event")

Winner

Cube inscribed with 3 Bars

Series 2nd & 3rd place finishers

Cube inscribed with 2 Bars

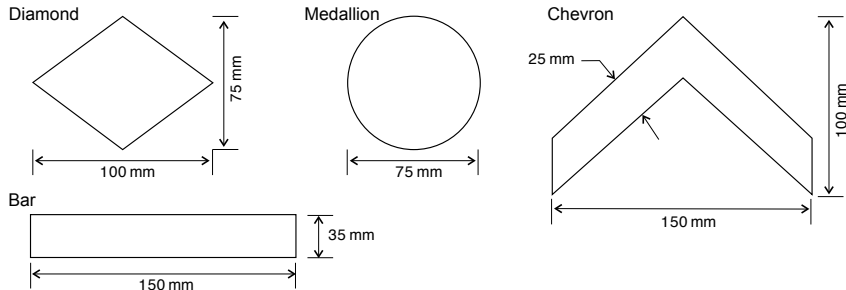
Series 4th & 5th place finishers

Cube inscribed with 1 Bar

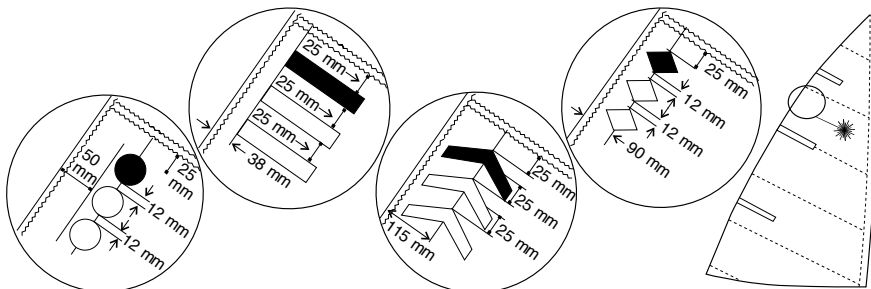
#### Multi District Events ("Medallion Events")

Winner

### Size and Shape of Award Symbols



### Schedule A: Position of Award Symbols



## ILCA By-Law 6: Status and Dissolution

1. The Association is a non-profit organisation. All profit and surpluses shall be used to maintain or improve the Association's facilities and the objects of the Constitution.
2. No profit or surplus shall be distributed other than to another non-profit making body promoting international sailing on winding up or dissolution of the Association.
3. Dissolution shall be approved by each of:
  - (a) The World Council
  - (b) The Advisory Council
  - (c) At least two thirds of the membership replying in writing to the International Office of the class in response to a postal ballot published by the International Office. Only those postal votes returned to the International Office within 6 months of the date of publication of the proposal to dissolve the Association shall be valid.

## ILCA By-Law 7: Postal Ballots

1. For the purposes of Constitution article 17 (c) and By-Law 1 (Rules) paragraph 30 (c) Postal Ballots may be published by any of:
  - (a) a printed document
  - (b) e-mail

- (c) e-mail or a printed document and notice on the Association's web site
2. Responses to a Postal Ballot shall be by returning the Postal Ballot Voting Form by letter, fax, e-mail or completing a designated web based Postal Ballot Voting Form.
  3. When so designated by the World Council a Postal Ballot on a subject that relates only to members owning a specific rig shall be voted upon only by members owning the specified rig.

## ILCA By-Law 8: Regional Championships

Organisation and Conduct of Regional (Continental) Championships

1. At least 18 months in advance of a Regional (Continental) Championship and before the dates, venue and notice of race of such a championship are published the venue and dates shall be submitted to the World Council for approval. Before giving such approval the World Council shall consider the requirements of this By-Law and any other aspect affecting the quality and fairness of the competition.
2. The sailing instructions shall be submitted to ILCA for approval 4 months before the date of the first race and shall follow the ILCA standard championship instructions.
3. A Laser District or International Measurer approved for the event by the ILCA Chief Measurer shall inspect boats at the championship prior to the start of racing using a check list and procedure prepared by the ILCA Chief Measurer.

# World Championship Archives

Before 1997, ILCA did not hold separate Laser Radial or Youth Worlds. Except in 1980, entry to the Senior Worlds (Standard Rig) was restricted. Regional Championship archives are on the website: [www.laserinternational.org](http://www.laserinternational.org)

### OLYMPIC GAMES

#### 2012 London, UK

##### Laser Standard

##### Countries 49

1st	Tom Slingsby	AUS
2nd	Pavlos Kontides	CYP
3rd	Rasmus Mygren	SWE
4th	Tonci Stanovic	CRO
5th	Andrew Murdoch	NZL

##### Laser Radial

##### Countries 41

1st	Lijia Xu	CHN
2nd	Mart Bouwmeester	NED
3rd	Evi Van Acker	BEL
4th	Annalise Murphy	IRL
5th	Alison Young	GBR

#### 2008 Beijing, CHN

##### Laser Standard

##### Countries 43

1st	Paul Goodison	GBR
2nd	Vasilij Zbogor	SLO
3rd	Diego Romero	ITA
4th	Gustavo Lima	POR
5th	Andrew Murdoch	NZL

##### Laser Radial

##### Countries 28

1st	Anna Tunnicliffe	USA
2nd	Gintare Volungeviciute	LTU
3rd	Lijia Xu	CHN
4th	Sarah Blanck	AUS
5th	Sarah Steyaert	FRA

#### 2004 Athens, GRE

##### Laser Standard

##### Countries 42

1st	Robert Scheidt	BRA
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2nd	Andreas Geritzer	AUT
3rd	Vasilij Zbogor	SLO
4th	Paul Goodison	GBR
5th	Gustavo Lima	POR

#### 2000 Sydney, AUS

##### Laser Standard

##### Countries 43

1st	Ben Ainslie	GBR
2nd	Robert Scheidt	BRA
3rd	Michael Blackburn	AUS
4th	Serge Kats	NED
5th	Andreas Geritzer	AUT

#### 1996 Savannah, USA

##### Laser Standard

##### Countries 56

1st	Robert Scheidt	BRA
2nd	Ben Ainslie	GBR
3rd	Peer Moberg	NOR
4th	Michael Blackburn	AUS
5th	Stefan Warkalla	GER

### WORLD CHAMPIONSHIPS

#### 2012 Boltenhagen, GER

##### Open: Laser Standard

##### Entries 169 Countries 62

1st	Tom Slingsby	AUS
2nd	Tonci Stanovic	CRO
3rd	Andrew Maloney	NZL
4th	Juan Maegli	GUA
5th	Tom Burton	AUS

#### 2012 Boltenhagen, GER

##### Women: Laser Radial

##### Entries 136 Countries 53

1st	Gintare Scheidt	LTU
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2nd	Lijia Xu	CHN
3rd	Sari Multala	FIN
4th	Alison Young	GBR
5th	Marit Bouwmeester	NED

#### 2012 Buenos Aires, ARG

##### U21: Laser Standard

##### Entries 29 Countries 19

1st	Giovanni Cocoluto	ITA
2nd	Stig Steinfurth	DEN
3rd	Aleksander Arihan	POL
4th	Juan Ignacio Biava	ARG
5th	Ignasi Lopez Carcaré	ESP

#### 2012 Brisbane, AUS

##### Men: Laser Radial

##### Entries 54 Countries 9

1st	Brown Tristan	AUS
2nd	Wearn Matthew	AUS
3rd	O'Connell Jeremy	AUS
4th	Pepper Mahia	NZL
5th	Smith Daniel	AUS

##### Youth Men: Laser Radial

##### Entries 71 Countries 11

1st	Tomasgaard Hermann	NOR
2nd	McKenzie Andrew	NZL
3rd	Kiss Mitchell	USA
4th	Nikolaev Maxim	RUS
5th	Perdomo Juan Carlos	PUR

##### Youth Women: Laser Radial

##### Entries 35 Countries 19

1st	Jonker Maxime	NED
2nd	Kennedy Madison	AUS
3rd	Povall Georgia	GBR
4th	Bennett Milly	AUS
5th	Philip Anna	AUS

#### 2012 Buenos Aires, ARG

##### U18 Men: Laser 4.7

##### Entries 71 Countries 25

1st	Benjamin Vadrail	HUN
2nd	Nahuel Rodriguez PérezESP	
3rd	Maximilian Kuester	ITA
4th	Jacopo Fanti	ITA
5th	Raul Sanchez Lago	ESP

##### U16 Men: Laser 4.7

##### Entries 20 Countries 12

1st	Joel Rodriguez Pérez	ESP
2nd	Malone Chao Jie Pun	SIN
3rd	Luka Tosic	SRB
4th	Liam Mccarthy	USA
5th	Francisco Guaragna	ARG

##### U18 Women: Laser 4.7

##### Entries 46 Countries 17

1st	Celine Therese Herud	NOR
2nd	Yolanda Luque GonzalezESP	
3rd	Anja Hamerlitz	CRO
4th	Kana Hayashi	BRA
5th	Martina Reino Cacho	ESP

##### U16 Women: Laser 4.7

##### Entries 12 Countries 7

1st	Maria C. K. Boabaid	BRA
2nd	Natalia A. S. Barriga	ESP
3rd	Jacinta Ainsworth	AUS
4th	Daniela Cardozo	ARG
5th	Martina Reino Cacho	JPN

##### 2011 Perth, AUS

##### Open: Laser Standard

##### Entries 145 Countries 66

1st	Tom Slingsby	AUS
2nd	Simon Groteluschen	GER
3rd	Nick Thompson	GBR
4th	Andreas Geritzer	AUT
5th	Paul Goodison	GBR

##### Women: Laser Radial

##### Entries 102 Countries 51

1st Marit Bouwmeester . . . NED  
 2nd Evi Van Acker . . . BEL  
 3rd Paige Raley . . . USA  
 4th Veronika Fenclova . . . CZE  
 5th Gintare Volungeviciute . . . LTU

## 2011 La Rochelle, FRA

### U21: Laser Standard

Entries 151 Countries 40  
 1st Sam Meech . . . NZL  
 2nd Alex Mills-Barton . . . GBR  
 3rd Martin Evans . . . GBR  
 4th Ki-Raphael Sulkowski . . . AUS  
 5th Francesco Marrai . . . ITA

## 2011 La Rochelle, FRA

### Men: Laser Radial

Entries 135 Countries 35  
 1st Marcin Rudawski . . . POL  
 2nd James Burman . . . AUS  
 3rd Yuri Hummel . . . NED  
 4th Tristan Brown . . . AUS  
 5th Juan Carlos Perdomo . . . PUR

### Youth Men: Laser Radial

Entries 277 Countries 42  
 1st Giovanni Coccoluto . . . ITA  
 2nd Elliot Hansy . . . FRA  
 3rd Eliot Merceron . . . FRA  
 4th Mitchell Kiss . . . USA  
 5th Tommaso Centonze . . . ITA

### Youth Women: Laser Radial

Entries 101 Countries 27  
 1st Erika Reineke . . . USA  
 2nd Oren Jacob . . . ISR  
 3rd Sandy Fauthoux . . . FRA  
 4th Paulina Czubachowska . . . POL  
 5th Manami Doi . . . JPN

## 2011 San Francisco, USA

### U18 Men: Laser 4.7

Entries 112 Countries 28  
 1st Francisco Gonzalez S . . . ESP  
 2nd Carlos Rosello . . . ESP  
 3rd William de Smet . . . BEL  
 4th Keiju Okada . . . JPN  
 5th Mehmet Turkmen . . . TUR

### U16 Men: Laser 4.7

Entries 39 Countries 22  
 1st Nils Theuninck . . . SUI  
 2nd Anthony Parke . . . GBR  
 3rd Martin Lowy . . . BRA  
 4th Nicholas Connor . . . AUS  
 5th Trent Rippey . . . NZL

### U18 Women: Laser 4.7

Entries 53 Countries 19  
 1st Cecilia Zorzi . . . ITA  
 2nd Kim Pletkowski . . . SLO  
 3rd Line Flem Høst . . . NOR  
 4th Celine Therese Herud . . . NOR  
 5th Maud Jayet . . . SUI

### U16 Women: Laser 4.7

Entries 12 Countries 8  
 1st Maud Jayet . . . SUI  
 2nd Athanasia Fakidi . . . GRE  
 3rd Vasileia Karachaliou . . . GRE  
 4th Savannah Siew K. Hui . . . SIN  
 5th Marine V. Campenhoudt . . . SUI

## 2010 Hayling Island, GBR

### Open: Laser Standard

Entries 160 Countries 53  
 1st Tom Slingsby . . . AUS  
 2nd Nick Thompson . . . GBR  
 3rd Andrew Murdoch . . . NZL  
 4th Julio Alsogaray . . . ARG  
 5th Pavlos Kontides . . . CYP

### U21: Laser Standard

Entries 137 Countries 37  
 1st Thorbjørn Schierup . . . DEN  
 2nd Francesco Marrai . . . ITA  
 3rd Alex Mills-Barton . . . GBR  
 4th Kacper Ziemiński . . . POL  
 5th Filip Jurisic . . . CRO

## 2010 Largs, GBR

### Women: Laser Radial

Entries 117 Countries 41  
 1st Sari Multala . . . FIN  
 2nd Marit Bouwmeester . . . NED  
 3rd Paige Raley . . . USA  
 4th Sarah Steyaert . . . FRA  
 5th Tatiana Drozdovskaya . . . BLR

### Men: Laser Radial

Entries 103 Countries 31  
 1st Marcin Rudawski . . . POL  
 2nd Wojciech Zemke . . . POL  
 3rd Mitchell Kiss . . . USA  
 4th Ben Koppelaar . . . NED

5th Insub Kim . . . KOR

### Youth Men: Laser Radial

Entries 228 Countries 41  
 1st Giovanni Coccoluto . . . ITA  
 2nd Tadeusz Kubiak . . . POL  
 3rd Luca Antognoli . . . ITA  
 4th Stefano Mazzaferro . . . BRA  
 5th Mitchell Kiss . . . USA

### Youth Women: Laser Radial

Entries 91 Countries 26  
 1st Erika Reineke . . . USA  
 2nd Manami Doi . . . JPN  
 3rd Michelle Broekhuizen . . . NED  
 4th Chiara Steinmueller . . . GER  
 5th Arjonilla Julia Vallo . . . ESP

## 2010 Pattaya, THA

### U18 Men: Laser 4.7

Entries 45 Countries 22  
 1st Etienne Le Pen . . . FRA  
 2nd Supakorn Pongwichan . . . THA  
 3rd Jobert Van Dijk . . . NED  
 4th Luca Malusa . . . ITA  
 5th Juan Carlos Perdomo . . . PUR

### U18 Women: Laser 4.7

Entries 40 Countries 20  
 1st Caitlin Elks . . . AUS  
 2nd Nur Amirah Hamid . . . MAS  
 3rd Oren Jacob . . . ISR  
 4th Ashlie Lane . . . AUS  
 5th Ella Evans . . . AUS

### U16 Mixed: Laser 4.7

Entries 31 Countries 14  
 1st Ryan Amliehn . . . NZL  
 2nd Mark Spearman . . . AUS  
 3rd Filipos Florentin . . . GRE  
 4th Panagiotis Stathis . . . GRE  
 5th Benjamin Whiteside . . . NZL

## 2009 Halifax, CAN

### Open: Laser Standard

Entries 168 Countries 51  
 1st Paul Goodison . . . GBR  
 2nd Michael Bullot . . . GBR  
 3rd Mark Spearman . . . AUS  
 4th Julio Alsogaray . . . ARG  
 5th Tonci Stipanovic . . . CRO

### 2009 Karatsu, JPN

#### Women: Laser Radial

Entries 88 Countries 30  
 1st Sari Multala . . . FIN  
 2nd Sophie de Turckheim . . . FRA  
 3rd Anna Tunnicliffe . . . USA  
 4th Marit Bouwmeester . . . NED  
 5th Lijia Xu . . . CHN

### Men: Laser Radial

Entries 61 Countries 16  
 1st Marcin Rudawski . . . POL  
 2nd Ben Koppelaar . . . NED  
 3rd Insub Kim . . . KOR  
 4th Hisaki Nagai . . . JPN  
 5th Mohd Rosali Muhamad MAS

### Youth Men: Laser Radial

Entries 100 Countries 25  
 1st Keerat Bualong . . . THA  
 2nd Aleksander Arián . . . POL  
 3rd Filip Kobielski . . . POL  
 4th Toma Visic . . . CRO  
 5th Chris Barnard . . . USA

### Youth Women: Laser Radial

Entries 39 Countries 16  
 1st Mathilde de Kerangat . . . FRA  
 2nd Ashley Stoddart . . . GBR  
 3rd Michelle Broekhuizen . . . NED  
 4th Anna Agrafioti . . . GRE  
 5th Joanna Waksymuk . . . POL

## 2009 Buzios, BRA

### Youth Men: Laser 4.7

Entries 109 Countries 24  
 1st Jonathan Martinetti . . . ECU  
 2nd Hermann Tomasgaard . . . NOR  
 3rd Juraj Divjakinja . . . CRO  
 4th Guillermo Arce . . . PER  
 5th Tono Alcazar . . . ESP

### Youth Women: Laser 4.7

Entries 39 Countries 23  
 1st Urska Kosir . . . SLO  
 2nd Tomoyo Wakabayashi . . . JPN  
 3rd Hitomi Murayama . . . JPN  
 4th Kim Pletkowski . . . SLO  
 5th Patricia Coro Leveque . . . ESP

## 2008 Terrigal, AUS

### Open: Laser Standard

Entries 157 Countries 58  
 1st Tom Slingsby . . . AUS

2nd Julio Alsogaray . . . ARG

3rd Javier Hernandez . . . ESP

4th Vasilij Zbogor . . . SLO

5th Michael Bullot . . . NZL

## 2008 Auckland, NZL

### Women: Laser Radial

Entries 116 Countries 41  
 1st Sarah Steyaert . . . FRA  
 2nd Lijia Xu . . . CHN  
 3rd Andrea Brewster . . . GBR  
 4th Gintare Volungeviciute . . . LTU  
 5th Sarah Black . . . AUS

### Men: Laser Radial

Entries 71 Countries 17  
 1st Michael Leigh . . . CAN  
 2nd Brad Funk . . . USA  
 3rd Simon Morgan . . . AUS  
 4th James Sandall . . . NZL  
 5th James Burman . . . AUS

### Youth Men: Laser Radial

Entries 85 Countries 20  
 1st Andrew Maloney . . . NZL  
 2nd Martin Evans . . . GBR  
 3rd Maarten Max Moerman . . . NED  
 4th Gustav Linder . . . AUS  
 5th Sam Meech . . . NZL

### Youth Women: Laser Radial

Entries 38 Countries 14  
 1st Gabrielle King . . . AUS  
 2nd Cushman Hume-Merry . . . NZL  
 3rd Sarah Gunni . . . DEN  
 4th Mathilde de Kerangat . . . FRA  
 5th Annaliese Murphy . . . IRL

## 2008 Trogir, CRO

### Youth Men: Laser 4.7

Entries 279 Countries 43  
 1st Shahar Jacob . . . ISR  
 2nd Scott Sydney . . . SIN  
 3rd Lovre Perhat . . . CRO  
 4th Toma Visic . . . CRO  
 5th Alexandros Chocholis . . . GRE

### Youth Women: Laser 4.7

Entries 116 Countries 32  
 1st Elizabeth Yin . . . SIN  
 2nd Matea Senkic . . . CRO  
 3rd Antea Kordic . . . CRO  
 4th Cora Leveque Patricia . . . ESP  
 5th Charlotte Asselt . . . NED

## 2007 Cascais, POR

### Open: Laser Standard

Entries 149 Countries 60  
 1st Tom Slingsby . . . AUS  
 2nd Andrew Murdoch . . . NZL  
 3rd Dennis Karpak . . . EST  
 4th Mate Arapov . . . CRO  
 5th Paul Goodison . . . GBR

### Women: Laser Radial

Entries 107 Countries 48  
 1st Tatiana Drozdovskaya . . . BLR  
 2nd Sari Multala . . . FIN  
 3rd Petra Niemann . . . GER  
 4th Katarzyna Szotyńska . . . POL  
 5th Anna Tunnicliffe . . . USA

## 2007 The Hague, NED

### Men: Laser Radial

Entries 121 Countries 26  
 1st Ben Paton . . . GBR  
 2nd Eduardo Vianen . . . NED  
 3rd Steven Koon . . . DEN  
 4th Jon Emmett . . . GBR  
 5th James Burman . . . AUS

### Youth Men: Laser Radial

Entries 204 Countries 29  
 1st Thorbjørn Schierup . . . DEN  
 2nd Ioannis Mitakis . . . GRE  
 3rd Gijs Pelt . . . NED  
 4th Joaquin Blanco . . . ESP  
 5th Barbaros Tuna . . . TUR

### Youth Women: Laser Radial

Entries 68 Countries 26  
 1st Tuula Tenkanen . . . FIN  
 2nd Susana Romero . . . ESP  
 3rd Sarah Gunni . . . DEN  
 4th Anne Haeger . . . USA  
 5th Mathilde de Kerangat . . . FRA

## 2007 Hermanus, RSA

### Youth Men: Laser 4.7

Entries 95 Countries 27  
 1st Filip Matika . . . CRO  
 2nd Baepi Pinna . . . BRA  
 3rd Alexander Zimmermann . . . PER  
 4th Boris Bignoli . . . ITA

5th Jakob Bozic . . . SLO

### Youth Women: Laser 4.7

Entries 25 Countries 14  
 1st Tajana Ganic . . . CRO  
 2nd Ewa Makowska . . . POL  
 3rd Lina Stock . . . CRO  
 4th Tiffany Brien . . . IRL  
 5th Matea Senkic . . . CRO

## 2006 Jeju Island, KOR

### Open: Laser Standard

Entries 128 Countries 43  
 1st Michael Blackburn . . . AUS  
 2nd Tom Slingsby . . . AUS  
 3rd Rasmus Myrgen . . . SWE  
 4th Michael Leigh . . . CAN  
 5th Gustav Linder . . . POR

## 2006 Los Angeles, USA

### Men: Laser Radial

Entries 71 Countries 22  
 1st Fabio Pillar . . . BRA  
 2nd Steven Le Fevre . . . NED  
 3rd Steven Koon . . . NED  
 4th Jon Emmett . . . GBR  
 5th Ryan Seaton . . . RL

### Women: Laser Radial

Entries 89 Countries 31  
 1st Lijia Xu . . . CHN  
 2nd Petra Niemann . . . GER  
 3rd Tanja Elias Calles Wolf . . . MEX  
 4th Anna Tunnicliffe . . . USA  
 5th Evi Van Ecker . . . BEL

### Youth Men: Laser Radial

Entries 140 Countries 21  
 1st Kyle Rogachenko . . . USA  
 2nd Guilherme Barbosa Lima . . . BRA  
 3rd Mathew Archibald . . . CAN  
 4th Joaquin Blanco . . . ESP  
 5th James Sandall . . . NZL

### Youth Women: Laser Radial

Entries 39 Countries 12  
 1st Claire Dennis . . . USA  
 2nd Susana Romero . . . ESP  
 3rd Allie Blecher . . . USA  
 4th Laura Maes . . . BEL  
 5th Stephanie Roble . . . USA

## 2006 Hourtin, FRA

### Youth Men: Laser 4.7

Entries 237 Countries 27  
 1st Colin Xinn Cheng . . . SIN  
 2nd Viktor Serezkin . . . RUS  
 3rd Marco Peres . . . CRO  
 4th Fran Perucic . . . CRO  
 5th Giuseppe Linares . . . ITA

### Youth Women: Laser 4.7

Entries 88 Countries 19  
 1st Victoria Chan . . . SIN  
 2nd Agnieszka Pokrzypulec . . . POL  
 3rd Julie Chehal . . . CRO  
 4th Susana Romero . . . ESP  
 5th Tuula Tenkanen . . . FIN

## 2005 Fortaleza, BRA

### Open: Laser Standard

Entries 136 Countries 36  
 1st Robert Scheidt . . . BRA  
 2nd Diego Emilio Romero . . . ARG  
 3rd Andrew Murdoch . . . NZL  
 4th Vasilij Zbogor . . . SLO  
 5th Mate Arapov . . . CRO

### Men: Laser Radial

Entries 90 Countries 24  
 1st Eduardo Magalhães . . . BRA  
 2nd Brad Funk . . . USA  
 3rd Blair McLay . . . NZL  
 4th Martin Jenkins . . . ARG  
 5th Andreas Perdicaris . . . BRA

### Women: Laser Radial

Entries 76 Countries 31  
 1st Paige Raley . . . USA  
 2nd Sophie de Turckheim . . . FRA  
 3rd Anna Tunnicliffe . . . USA  
 4th Krystal Niemann . . . GER  
 5th Petra Weir . . . AUS

### Youth Men: Laser Radial

Entries 77 Countries 23  
 1st Blair McLay . . . NZL  
 2nd Frederico Melo . . . POR  
 3rd Ivan Taritas . . . CRO  
 4th Antons Tertzis . . . GRE  
 5th James Burman . . . AUS

### Youth Women: Laser Radial

Entries 26 Countries 13  
 1st Veronika Haid . . . AUT  
 2nd Bruna Cordeiro . . . BRA

3rd Viviane de Oliveira... BRA  
4th Luiza de Sábola... BRA  
5th Cecilia de Andrade... BRA

## 2005 Barrington, USA

Entries 92 Countries 16

**Youth Men: Laser 4.7**  
1st Joaquin Blanco... ESP  
2nd Adam Sims... GBR  
3rd Dany Stanisic... SLO  
4th Guney Kaptan... TUR  
5th Marco Teixidor... PUR

**Youth Women: Laser 4.7**  
1st Stephanie Roble... USA  
2nd Annie Haeger... USA  
3rd Cecilia Arago... BRA  
4th Matilde Fabbrì... ITA  
5th Nilsu Orgen... TUR

## 2004 Bitez, TUR

**Open: Laser Standard**

Entries 145 Countries 60  
1st Robert Scheidt... BRA  
2nd Mark Mendelblatt... USA  
3rd Michael Blackburn... AUS  
4th Hamish Pepper... NZL  
5th Karl Suneson... SWE

## 2004 Brisbane, AUS

**Men: Laser Radial**

Entries 133 Countries 11  
1st Michael Blackburn... AUS  
2nd Aron Lolic... CRO  
3rd Tom Slingsby... AUS  
4th Blair McLay... NZL  
5th Marc Orams... NZL

## Women: Laser Radial

Entries 37 Countries 12  
1st Krystal Weir... AUS  
2nd Christine Bridge... AUS  
3rd Cecilia Carranza Saroli... ARG  
4th Nufar Edelman... ISR  
5th Gea Jutjens... NED

## Youth: Laser Radial

Entries 108 Countries 18  
1st Jean Baptiste Bernaz... FRA  
2nd Nathan Outteridge... AUS  
3rd Daniel Milneilch... CRO  
4th Daniel Jakobsen... BRA  
5th Javier Padron... ESP

## 2004 Riva del Garda, ITA

Entries 276 Countries 23

## Youth Men: Laser 4.7

1st Justin Onviee... RSA  
2nd Mathieu Frei... FRA  
3rd Ivo Kalebic... CRO  
4th Alexander Dolan... IRL  
5th Pierre Angelo Collura... FIN

## Youth Women: Laser 4.7

1st Anita Di Iasio... ITA  
2nd Tina Milneilch... CRO  
3rd Cansin Karga... TUR  
4th Vanessa le Bouteiller... FRA  
5th Clare Chapple... GBR

## 2003 Cadiz, ESP

**Open: Laser Standard**

Entries 174 Countries 61  
1st Gustavo Lima... POR  
2nd Robert Scheidt... BRA  
3rd Michael Blackburn... AUS  
4th Luis Martinez... ESP  
5th Daniel Birgmark... SWE

## 2003 Riva del Garda, ITA

**Men: Laser Radial**

Entries 231 Countries 31  
1st Aron Lolic... CRO  
2nd Jake Bartrom... NZL  
3rd Karlo Krpeljevic... CRO  
4th Max Bulley... FRA  
5th Marc Jux... CHI

## Women: Laser Radial

Entries 50 Countries 16  
1st Katarzyna Szotynski... POL  
2nd Krystal Weir... AUS  
3rd Jeanette Dagson... SWE  
4th Corinne Meyer... SUI  
5th Gea Jutjens... NED

## Youth: Laser Radial

Entries 280 Countries 27  
1st Tonci Stipanovic... CRO  
2nd Tonko Kuzmanic... CRO  
3rd Jonasz Steimaszyk... POL  
4th Campbell Davidson... GBR  
5th Javier Padron... ESP

## 2003 Cesme, TUR

Entries 98 Countries 18

## Youth Men: Laser 4.7

1st Onur Derebasi... TUR  
2nd Ates Cinar... TUR  
3rd Mustafa Cakir... TUR  
4th Philip White... GBR  
5th Mlosz Landowski... POL

## Youth Women: Laser 4.7

1st Ayda Unver... TUR  
2nd Anita Di Iasio... ITA  
3rd Diem Sarman... TUR  
4th Cansin Karga... TUR  
5th Istem Oguzbayrak... TUR

## 2002 Hyannis, USA

**Open: Laser Standard**

Entries 131 Countries 44  
1st Robert Scheidt... BRA  
2nd Karl Suneson... SWE  
3rd Paul Goodison... GBR  
4th Diego Negri... ITA  
5th Brendan Casey... AUS

## 2002 Ontario, CAN

**Men: Laser Radial**

Entries 101 Countries 19  
1st Karlo Krpeljevic... CRO  
2nd Chris de Gay... USA  
3rd Tiago Rodriguez... BRA  
4th David Wright... CAN  
5th Jake Bartrom... NZL

## Women: Laser Radial

Entries 38 Countries 10  
1st Katarzyna Szotynski... POL  
2nd Miranda Powrie... NZL  
3rd Clara Peel... IRL  
4th Kelly Coulter... AUS  
5th Alison Casey-Hall... AUS

## Youth: Laser Radial

Entries 174 Countries 20  
1st Tonko Kuzmanic... CRO  
2nd Conner Higgins... CAN  
3rd Giles Scott... GBR  
4th Nick Thompson... GBR  
5th Max Bulley... FRA

## 2002 Mulderand, NED

Entries 124 Countries 16

## Youth Men: Laser 4.7

1st Tonci Stipanovic... CRO  
2nd Daniel Milneilch... NED  
3rd Collin Roabaard... NED  
4th Stefano Meciani... ITA  
5th Dennis Karpak... EST

## Youth Women: Laser 4.7

1st Tugce Subasi... TUR  
2nd Celine Olivon... FRA  
3rd Marianne Mulder... NED  
4th Samantha Chidgey... AUS  
5th Lidia Noto... ITA

## 2001 Cork, IRL

**Open: Laser Standard**

Entries 159 Countries 48  
1st Robert Scheidt... BRA  
2nd Gustavo Lima... POR  
3rd Peer Moberg... NOR  
4th Paul Goodison... GBR  
5th Gareth Blackenberger... RSA

## 2001 Vilanova, ESP

**Men: Laser Radial**

Entries 230 Countries 35  
1st Michael Bullot... NZL  
2nd Daniel Milneilch... BRA  
3rd Aron Lolic... CRO  
4th Alp Alpogut... TUR  
5th Karlo Krpeljevic... CRO

## Women: Laser Radial

Entries 56 Countries 23  
1st Katarzyna Szotynski... POL  
2nd Larissa Nevierov... ITA  
3rd Sara Lane Wright... BER  
4th Iatiana Drozdovskaya... BLR  
5th Jayne Singleton... GBR

## Youth: Laser Radial

Entries 260 Countries 33  
1st Michael Bullot... NZL  
2nd Iason Georgaris... GRE  
3rd Alexandre Monteau... FRA  
4th Mathieu Muriat... FRA  
5th Guray Zimbal... TUR

## 2000 Cancun, MEX

**Open: Laser Standard**

Entries 141 Countries 50  
1st Robert Scheidt... BRA  
2nd Michael Blackburn... AUS  
3rd Ben Ainslie... GBR

4th Karl Suneson... SWE  
5th Serge Kats... NED

## 2000 Cesme, TUR

**Men: Laser Radial**

Entries 124 Countries 25  
1st Fredrik Lassenius... SWE  
2nd Alexandros Logothetis... GRE  
3rd Vangelis Chimonas... GRE  
4th Petar Cupac... CRO  
5th Kemal Muslubas... TUR

## Women: Laser Radial

Entries 33 Countries 16  
1st Katarzyna Szotynski... POL  
2nd Nicola Muller... GBR  
3rd Jayne Singleton... GBR  
4th Jeanette Dagson... SWE  
5th Denis Karacagolu... TUR

## Youth: Laser Radial

Entries 137 Countries 31  
1st Guray Zumbul... TUR  
2nd Anders Nyholm... DEN  
3rd Arne Nieuwenhuys... NED  
4th Antonis Manoliakis... GRE  
5th Andrew Walsh... GBR

## 1999 Melbourne, AUS

**Open: Laser Standard**

Entries 141 Countries 46  
1st Ben Ainslie... GBR  
2nd Robert Scheidt... BRA  
3rd Karl Suneson... SWE  
4th Michael Blackburn... AUS  
5th Andrew Simpson... GBR

## 1999 La Rochelle, FRA

**Men: Laser Radial**

Entries 167 Countries 27  
1st Adonis Bougiouris... GRE  
2nd Gustav Lima... POR  
3rd Teddy Queyrou... FRA  
4th Luka Radelic... CRO  
5th Vangelis Chimonas... GRE

## Women: Laser Radial

Entries 42 Countries 20  
1st Kelly Hand... CAN  
2nd Jeanette Dagson... SWE  
3rd Helene Viazzo... FRA  
4th Clementine Destailleur... FRA  
5th Nik Burfoot... AUS

## Youth: Laser Radial

Entries 304 Countries 35  
1st Francisco Sanchez F... ESP  
2nd Luka Radelic... CRO  
3rd Jorge Lima... POR  
4th Andrew Walsh... GBR  
5th Anders Nyholm... DEN

## 1998 Medemblik, NED

**Men: Laser Radial**

Entries 209 Countries 25  
1st Gustavo Lima... POR  
2nd Adonis Bougiouris... GRE  
3rd Alexandros Logothetis... GRE  
4th Raimondos Slugzdinis... LTU  
5th Luka Radelic... CRO

## Women: Laser Radial

Entries 87 Countries 19  
1st Larissa Nevierov... ITA  
2nd Nik Burfoot... NED  
3rd Jeanette Dagson... SWE  
4th Marceline de Koning... NED  
5th Jo Dikkenberg... AUS

## Youth: Laser Radial

Entries 228 Countries 33  
1st Alastair Gair... NZL  
2nd Evagelos Himonas... GRE  
3rd Goncalo Lopes... POR  
4th Leigh McMillan... GBR  
5th David Hiver... GBR

## 1997 Algarrobo, CHI

**Open: Laser Standard**

Entries 128 Countries 34  
1st Robert Scheidt... BRA  
2nd Nik Burfoot... NZL  
3rd Ben Ainslie... GBR  
4th Hamish Pepper... NZL  
5th Hugh Styles... GBR

## 1997 Mohamedia, MAR

**Men: Laser Radial**

Entries 122 Countries 25  
1st Raimondos Slugzdinis... LTU  
2nd Romain Knipping... FRA  
3rd Selim Kakis... TUR  
4th Benoit Raphael... FRA  
5th Goncalo Lopes... POR

## Women: Laser Radial

Entries 40 Countries 17

1st Sarah Black... AUS  
2nd Helen Waite... GBR  
3rd Anja Sahlborg... SWE  
4th Anje de Boer... NED  
5th Larissa Nevierov... ITA

## Youth: Laser Radial

Entries 122 Countries 31  
1st Teddy Queyrou... FRA  
2nd Romain Knipping... FRA  
3rd Alastair Gair... NZL  
4th Justin Deal... GBR  
5th Saad Santock... POR

## 1996 Cape Town, RSA

**Open: Laser Standard**

Entries 134 Countries 38  
1st Robert Scheidt... BRA  
2nd Karl Suneson... SWE  
3rd Ben Ainslie... GBR  
4th Stefan Warkalla... GER  
5th Iain Percy... GBR

## Men: Laser Radial

Entries 96 Countries 20  
1st Brendan Casey... AUS  
2nd Hamish Pepper... NZL  
3rd Allan Coutts... NZL  
4th Tim Shuwalow... AUS  
5th Dimitris Theodorakis... GRE

## Women: Laser Radial

Entries 29 Countries 11  
1st Jacqueline Ellis... AUS  
2nd Larissa Nevierov... ITA  
3rd Kathryn McQueen... AUS  
4th Sarah Black... NZL  
5th Alison Casey... AUS

## 1995 Tenerife, ESP

**Open: Laser Standard**

Entries 137 Countries 39  
1st Robert Scheidt... BRA  
2nd Nik Burfoot... NZL  
3rd Elvind Melbye... NOR  
4th Hamish Pepper... NZL  
5th Michael Blackburn... AUS

## Men: Laser Radial

Entries 66 Countries 18  
1st Brendan Casey... AUS  
2nd Tim Shuwalow... AUS  
3rd Gustavo Lima... POR  
4th Sean Kirkjian... AUS  
5th David Huet... FRA

## Women: Laser Radial

Entries 18 Countries 8  
1st Heidi Gordon... AUS  
2nd Larissa Nevierov... ITA  
3rd Roberta Hartley... GBR  
4th Alison Casey... AUS  
5th Roelien Huisman... NED

## 1994 Wakayama, JPN

**Open: Laser Standard**

Entries 120 Countries 36  
1st Nikolas Burfoot... NZL  
2nd Pascal Lacoste... FRA  
3rd Serge Kats... NED  
4th Hamish Pepper... NZL  
5th Peer Moberg... NOR

## Men: Laser Radial

Entries 82 Countries 14  
1st Rui Pedro Coelho... POR  
2nd Rodion Luka... UKR  
3rd Nathan Handley... NZL  
4th Yang Zhi... CHN  
5th Todd Holzapfel... AUS

## Women: Laser Radial

Entries 33 Countries 8  
1st Melanie Dennison... AUS  
2nd Jacqueline Ellis... AUS  
3rd Tracey Tan... S.N  
4th Ma Bettina Marcone... ARG  
5th Elizabeth Roberts... AUS

## 1993 Takapuna, NZL

**Open: Laser Standard**

Entries 99 Countries 29  
1st Thomas Johanson... F.N  
2nd Peter Tanscheit... BRA  
3rd Robert Scheidt... BRA  
4th Nikolas Burfoot... NZL  
5th Michael Hestbaek... DEN

## Men: Laser Radial

Entries 102 Countries 15  
1st Ben Ainslie... GBR  
2nd Daniel Milneilch... NZL  
3rd Allan Coutts... NZL  
4th Michael Blackburn... AUS

5th Peter Waring. .... NZL

### Women: Laser Radial

Entries 32 Countries 12  
1st Carolijn Brouwer. .... NED  
2nd Giselle Camel. .... USA  
3rd Alexandra Verbeek. .... NED  
4th Maria Vlachou. .... GRE  
5th Jacqueline Ellis. .... AUS

### 1991 Porto Carras, GRE

#### Open: Laser Standard

Entries 105 Countries 31  
1st Peter Tanscheit. .... BRA  
2nd Stefan Warkalla. .... GER  
3rd Mladen Makjanić. .... CRO  
4th Michael Højbæk. .... DEN  
5th Dimitri Theodorakis. .... GRE

#### Men: Laser Radial

Entries 73 Countries 15  
1st Stewart Casey. .... AUS  
2nd Maria Vlachou. .... GRE  
3rd John Karageorgis. .... GRE  
4th Alessandro Sartorelli. .... ITA  
5th Elias Katchorhian. .... GRE

#### Women: Laser Radial

Entries 33 Countries 10  
1st Maria Vlachou. .... GRE  
2nd Carolijn Brouwer. .... NED  
3rd Ourania Flabouri. .... GRE  
4th Roberta Zucchini. .... ITA  
5th Marina Psichogiou. .... GRE

### 1990 Newport, USA

#### Open: Laser Standard

Entries 103 Countries 26  
1st Glenn Bourke. .... AUS  
2nd Steven Bourdow. .... USA  
3rd Peter Tanscheit. .... BRA  
4th Mark Brink. .... USA  
5th Steve Rich. .... GBR

#### Men: Laser Radial

Entries 58 Countries 11  
1st Peter Katcha. .... USA  
2nd John Bonds. .... USA  
3rd Scott Cheney. .... USA  
4th Ardis Bollweg. .... NED  
5th Ulrika Antonsson. .... SWE

#### Women: Laser Radial

Entries 30 Countries 11  
1st Ardis Bollweg. .... NED  
2nd Ulrika Antonsson. .... SWE  
3rd Jacqueline Ellis. .... AUS  
4th Shiona Moss. .... SWE  
5th Lotta Nilsson. .... SWE

### 1989 Aarhus, DEN

#### Open: Laser Standard

Entries 104 Countries 28  
1st Glenn Bourke. .... AUS  
2nd Wouter Deutz. .... NED  
3rd Scott Ellis. .... AUS  
4th François Le Castrec. .... FRA  
5th Peter Tanscheit. .... BRA

#### Men: Laser Radial

Entries 58 Countries 17  
1st James Johnstone. .... USA  
2nd Dimitrios Theodorakis. .... GRE  
3rd Jeff Loosemore. .... AUS  
4th Peter Katcha. .... USA  
5th Yuguang Xu. .... CHN

#### Women: Laser Radial

Entries 33 Countries 15  
1st Ardis Bollweg. .... NED  
2nd Giselle Camel. .... SWE  
3rd Ulrika Antonsson. .... SWE  
4th Grethe Halvorsen. .... NOR  
5th Marie Dahloff. .... SWE

### 1988 Falmouth, GBR

#### Open: Laser Standard

Entries 88 Countries 24  
1st Glenn Bourke. .... AUS  
2nd Benny Anderson. .... DEN  
3rd Peter Fox. .... NZL  
4th Mark Brink. .... USA  
5th Stefan Warkalla. .... GER

#### Women: Laser Radial

Entries 31 Countries 14  
1st Jacqueline Ellis. .... AUS  
2nd Ardis Bollweg. .... NED  
3rd Ann Keates. .... GBR  
4th Ulrika Antonsson. .... SWE  
5th Johanna Harkonmaki. .... FIN

#### Youth: Laser Standard

Entries 62 Countries 20  
1st Ville Aalto Setälä. .... FIN  
2nd Joakim Berg. .... SWE  
3rd Jeroen Harderwijk. .... NED

4th Jon Lasenby. .... GBR

5th Nikos Nikoitsoudis. .... GRE

### 1987 Melbourne, AUS

#### Open: Laser Standard

Entries 130 Countries 20  
1st Stuart Wallace. .... AUS  
2nd Gunni Pedersen. .... DEN  
3rd Peter Tanscheit. .... BRA  
4th Nelson Alencastro. .... BRA  
5th Simon Cole. .... GBR

### 1985 Halmstad, SWE

#### Open: Laser Standard

Entries 108 Countries 28  
1st Lawrence Crispin. .... GBR  
2nd Andreas John. .... GER  
3rd Benny Andersen. .... DEN  
4th Gustaf Svensson. .... SWE  
5th Stefan Warkalla. .... GER

#### Women: Laser Standard

Entries 26 Countries 12  
1st Marit Soderstrom. .... SWE  
2nd Lynne Jewell. .... USA  
3rd Francesca Pavese. .... ITA  
4th Susanne Madsen. .... DEN  
5th Claudine Tailbout. .... FRA

### 1983 Gulfport, USA

#### Open: Laser Standard

Entries 145 Countries 27  
1st Oscar Paulich. .... NED  
2nd Per Arne Nilsson. .... NOR  
3rd Asbjorn Armkvaern. .... SWE  
4th Roland Gaebler. .... GER  
5th John Irvine. .... NZL

#### Women: Laser Standard

Entries 26 Countries 12  
1st Betsy Gelenitis. .... USA  
2nd Lynne Jewell. .... USA  
3rd Carollee Spooner. .... CAN  
4th Virginia Perry. .... USA  
5th Susanne Madsen. .... DEN

### 1982 Sardinia, ITA

#### Open: Laser Standard

Entries 231 Countries 28  
1st Terry Neilson. .... CAN  
2nd Andrew Roy. .... CAN  
3rd Mark Brink. .... USA  
4th Peter Vilby. .... DEN  
5th John Irvine. .... NZL

#### Women: Laser Standard

Entries 23 Countries 12  
1st Marion Steenhuis. .... NED  
2nd Vittoria Masotti. .... ITA  
3rd Francesca Pavese. .... ITA  
4th Susanne Schmidt. .... GER  
5th Barbara Champion. .... GBR

### 1980 Kingston, CAN

#### Open: Laser Standard

Entries 305 Countries 25  
1st Ed Baird. .... USA  
2nd Jose Barcel Dias. .... BRA  
3rd John Curlier. .... NZL  
4th Sjask Haakman. .... NED  
5th Duncan Lewis. .... CAN

#### Women: Laser Standard

Entries 20 Countries 10  
1st Marit Soderstrom. .... SWE  
2nd Lynne Jewell. .... USA  
3rd Cheryl Smith. .... NZL  
4th Annette Henderson. .... CAN  
5th Kathi Karlson. .... USA

### 1979 Perth, AUS

#### Open: Laser Standard

Entries 93 Countries 25  
1st Lasse Hjortnaes. .... DEN  
2nd Andrew Menkar. .... AUS  
3rd Cor Van Anholt. .... NED  
5th David Perry. .... USA

### 1977 Cabo Frio, BRA

#### Open: Laser Standard

Entries 104 Countries 23  
1st John Bertrand. .... USA  
2nd Peter Commette. .... USA  
3rd Mark Nealeman. .... NED  
4th Tim Alexander. .... AUS  
5th Gary Knapp. .... USA

### 1976 Kiel, GER

#### Open: Laser Standard

Entries 77 Countries 24  
1st John Bertrand. .... USA  
2nd Barry Thom. .... NZL  
3rd Edward Adams. .... USA  
4th Jeff Madrigali. .... USA  
5th Emile Pels. .... NED

### 1974 Bermuda

#### Open: Laser Standard

Entries 108 Countries 24  
1st Peter Commette. .... USA  
2nd Norm Freeman. .... USA  
3rd Chris Boome. .... USA  
4th Hugo Schmidt. .... USA  
5th Carl Buchan. .... USA

## MASTERS WORLD CHAMPIONSHIPS

### 2012 Brisbane, Australia

#### Entries 232 Countries 19

##### Laser Standard

Apprentices  
1st Matias Del Solar. .... CHI  
2nd Tony Baisden. .... AUS  
3rd Brett Morris. .... AUS  
4th Kent Coppelstone. .... NZL  
5th Rob Woodward. .... NZL

##### Masters

1st Brad Beyer. .... AUS  
2nd Bradley Taylor. .... AUS  
3rd Sean Atherton-Feeney. .... AUS  
4th Andrew Dellabarba. .... NZL  
5th Mike Matan. .... GBR

##### Grand Masters

1st Wolfgang Gerz. .... GER  
2nd Tracy Usher. .... AUS  
3rd Andre Martinie. .... DOM  
4th Malcolm Courts. .... GBR  
5th Mark Bethwaite Am. .... AUS

##### Laser Radial

Apprentices  
1st Scott Leith. .... NZL  
2nd Richard Butt. .... AUS  
3rd Danny Fuller. .... AUS  
4th Matthias Bruhl. .... GER  
5th Edmund Tam. .... NZL

##### Women Apprentices

1st Myra Robertson. .... AUS  
2nd Anita Smith. .... AUS  
3rd Ruth Mccance. .... AUS  
4th Jane Moffat. .... AUS  
5th Christy Usher. .... USA

##### Masters

1st Mark Orams. .... NZL  
2nd Greg Adams. .... AUS  
3rd Mark Kennedy. .... AUS  
4th David Early. .... AUS  
5th Grant Willmott. .... AUS

##### Women Masters

1st Christine Bridge. .... AUS  
2nd Vanessa Dudley. .... AUS  
3rd Agneta Jonsson. .... SWE  
4th Diane Sissingh. .... RSA  
5th Kirsteen Reid. .... RSA

##### Grand Masters

1st Michael Keaton. .... NZL  
2nd Adam French. .... AUS  
3rd Pete Thomas. .... NZL  
4th Doug Peckover. .... AUS  
5th Jeff Loosemore. .... AUS

##### Women Grand Masters

1st Lyndall Patterson. .... AUS  
2nd Lesley Reichenfeld. .... CAN  
3rd Peter Seidenberg. .... USA  
4th Kevin Phillips. .... AUS  
5th Lew Verdorn. .... AUS

##### Women Grand Masters

1st Gary Thomas. .... GBR  
2nd Keith Wilkins. .... GBR  
3rd Peter Seidenberg. .... USA  
4th Kevin Phillips. .... AUS  
5th Lew Verdorn. .... AUS

##### Laser 4.7

Masters  
1st Charlton Peter. .... AUS  
2nd Meikle George. .... AUS  
3rd Brady Martin. .... AUS  
4th Walsh Stephen. .... AUT  
5th Craig Peter. .... AUS

##### Women Masters

1st Heenan Claire. .... AUS  
2nd Mitchell Bronwyn. .... AUS  
3rd Lefevre Michelle. .... RSA  
4th Kemp Janet. .... AUS  
5th Walker Jenny. .... AUS

### 2011 San Francisco, USA

#### Entries 236 Countries 27

##### Laser Standard

Apprentices  
1st Benjamin Richardson. .... USA  
2nd Orlando Gledhill. .... GBR  
3rd Kevin Tauger. .... USA  
4th Gaspare Silvestri. .... ITA

5th David Armitage. .... USA

##### Masters

1st Arnaud Hummel. .... NED  
2nd Brett Beyer. .... AUS  
3rd Scott Ferguson. .... USA  
4th Russ Silvestri. .... USA  
5th Otto Strandvig. .... DEN

##### Grand Masters

1st Colin Dobb. .... AUS  
2nd Peter Vessella. .... USA  
3rd Malcolm Courts. .... GBR  
4th Lard Hansen. .... USA  
5th Wolfgang Gerz. .... GER

##### Laser Radial

Apprentices  
1st Scott Leith. .... NZL  
2nd Edmund Tam. .... NZL  
3rd Ian Gregory. .... GBR  
4th Joe Burcar. .... USA  
5th Pablo Cervantes. .... MEX

##### Women Apprentices

1st Buff Wendt. .... USA  
2nd Michele Davis. .... USA  
3rd Kate Easton. .... CAN  
Masters  
1st Al Clark. .... CAN  
2nd Carlos E. Wanderley. .... BRA  
3rd Marcelo Fuchs. .... BRA  
4th Gary Raffaele. .... AUS  
5th Mark Page. .... NZL

##### Women Masters

1st Diane Sissingh. .... AUS  
2nd Isabelle Barbeau. .... TAH  
Grand Masters  
1st William Symes. .... USA  
2nd Bruce Martinson. .... USA  
3rd Robert Lowndes. .... AUS  
4th Peter Heywood. .... AUS  
5th Walt Spevak. .... USA

##### Women Grand Masters

1st Lesley Reichenfeld. .... CAN  
2nd Inga Pashutin. .... ISR  
3rd Kathy Luciano. .... USA  
Great Grand Masters  
1st Keith Wilkins. .... GBR  
2nd Peter Seidenberg. .... USA  
3rd Jim Quinn. .... NZL  
4th Lindsay Hewitt. .... USA  
5th Michael Kinnear. .... GBR

### 2010 Hayling Island, GBR

#### Entries 354 Countries 31

##### Laser Standard

Apprentices  
1st Brett Beyer. .... AUS  
2nd Adonis Bougiouris. .... GRE  
3rd Jyrki Taiminen. .... FIN  
4th Orlando Gledhill. .... GBR  
5th Benjamin Richardson. .... USA

##### Masters

1st Scott Ferguson. .... USA  
2nd Arnaud Hummel. .... NED  
3rd John Bertrand. .... DEN  
4th Christian Gunn Pedersen. .... DEN  
5th Al Clark. .... CAN

##### Grand Masters

1st Wolfgang Gerz. .... GER  
2nd Peter Vessella. .... USA  
3rd Peter Sherwin. .... GBR  
4th Peter Sundelin. .... SWE  
5th William Symes. .... USA

##### Laser Radial

Apprentices  
1st Scott Leith. .... NZL  
2nd Jean-Christophe Leydet. .... FRA  
3rd Matthias Bruhl. .... GER  
4th Ian Jones. .... GBR  
5th Edmund Tam. .... NZL

##### Women Apprentices

1st Caroline Muselet. .... CAN  
2nd Rosie Tribe. .... GBR  
3rd Brenda Hoult. .... GBR  
Masters  
1st Stephen Cockrell. .... GBR  
2nd Joao Ramos. .... BRA  
3rd Harish Atkinson. .... NZL  
4th Carlos E. Wanderley. .... BRA  
5th Ian Escott. .... GBR

##### Women Masters

1st Christine Bridge. .... AUS  
2nd Agneta Jonsson. .... SWE  
3rd Vanessa Dudley. .... AUS  
Grand Masters  
1st Lyndall Patterson. .... AUS  
2nd Alden Shattuck. .... USA  
3rd Bruce Martinson. .... USA  
4th Mark Halman. .... USA  
5th Kevin Pearson. .... GBR

##### Women Grand Masters



1st Lyndall Patterson..... AUS	5th David Early..... AUS	1st Brodie Cobb..... USA	1st Brett Beyer..... AUS
2nd Janet Kemp..... AUS	<b>Women Apprentices</b>	2nd Tracy Usher..... USA	2nd Stephen Cockerill..... GBR
<b>Great Grand Masters</b>	1st Alison Casey..... AUS	3rd Mark Bear..... USA	3rd Martin Lehner..... AUT
1st Keith Wilkins..... GBR	2nd Justine Ella..... AUS	4th Andre Martinie..... DOM	4th Nick Walsh..... IRL
2nd Peter Seidenberg..... USA	3rd Yvonne Malmsten..... SWE	5th Malcolm Courts..... GBR	5th Matt Sepp..... EST
3rd Johan Stam..... NED	<b>Masters</b>	<b>Grand Masters</b>	<b>Masters</b>
4th Jim Quinn..... NZL	1st Mark Orams..... NZL	1st Doug Peckover..... USA	1st Colin Dibb..... AUS
5th Kerry Waraker..... AUS	2nd Stephen Cockerill..... GBR	2nd Robert Lowndes..... AUS	2nd Jack Schlachter..... AUS
<b>Women Great Grand Masters</b>	3rd Greg Adams..... AUS	3rd Derek Breitenstein..... FIN	3rd Tracy Usher..... USA
1st Hilary Thomas..... GBR	4th Al Clark..... CAN	4th Bob Blakey..... NZL	4th Brett Wright..... BER
2nd Deirdre Webster..... CAN	5th Chris Raab..... USA	5th Ken Brown..... CAN	5th Mark Bear..... USA
<b>2009 Halifax, CAN</b>	<b>Women Masters</b>	<b>Laser Radial</b>	<b>Grand Masters</b>
Entries 295 Countries 26	1st Christine Bridge..... AUS	<b>Apprentices</b>	1st Mark Bethwaite..... AUS
<b>Laser Standard</b>	2nd Lyndall Patterson..... AUS	1st Steve Cockerill..... GBR	2nd Magnus Olm..... SWE
<b>Apprentices</b>	3rd Vanessa Dudley..... AUS	2nd Mark Page..... AUS	2nd David Edmondson..... AUS
1st Adonis Bouglouris..... GRE	<b>Grand Masters</b>	3rd David Early..... AUS	4th Robert Lowndes..... AUS
2nd Brett Beyer..... AUS	1st Peter Heywood..... AUS	4th Christine Bridge..... AUS	5th Sandy Grigg..... NZL
3rd Orlando Gledhill..... GBR	2nd Brian Watson..... AUS	<b>Masters</b>	<b>Laser Radial</b>
4th Ray Davies..... CAN	3rd Peter Whipp..... GBR	1st Greg Adams..... AUS	<b>Apprentices</b>
5th Stewart Casey..... AUS	4th Lew Verdon..... AUS	2nd Bruce Martinson..... AUS	1st David Early..... HKG
<b>Masters</b>	5th Ian Rawet..... GBR	3rd Martin Baltischeffsky..... FIN	2nd Aydin Yurdum..... TUR
1st Scott Ferguson..... USA	<b>Women Grand Masters</b>	4th Gregory Kemp..... AUS	3rd Martin Baltischeffsky..... FIN
2nd Arnoud Hummel..... NED	1st Gill Waiting..... NZL	<b>Grand Masters</b>	4th Bulent Baha Akın..... TUR
3rd Andrew Pimental..... USA	<b>Great Grand Masters</b>	1st Alden Shattuck..... AUS	5th Claudio Giallizioli..... ITA
4th Mark Bear..... AUS	1st Peter Seidenberg..... USA	2nd Peter Whipp..... GBR	<b>Women Apprentices</b>
5th Jan Scholten..... AUS	2nd Kerry Waraker..... AUS	3rd Ian Rawet..... GBR	1st Yvonne Malmsten..... SWE
<b>Grand Masters</b>	3rd Tom Speed..... NZL	4th Hilary Thomas..... GBR	1st Goran Bonacic..... CRO
1st Wolfgang Gerz..... GER	4th Jim Quinn..... NZL	<b>Great Grand Masters</b>	2nd Lyndall Patterson..... AUS
2nd Mark Bethwaite..... AUS	5th Howard Taylor..... AUS	1st Peter Seidenberg..... USA	3rd Bruce Martinson..... USA
3rd Alan Keen..... RSA	<b>2007 Roses, ESP</b>	2nd Kerry Waraker..... AUS	4th Olivier Falque..... FRA
4th Jack Schlachter..... AUS	Entries 419 Countries 33	3rd Sandy Grigg..... NZL	5th Laurent Vigo..... FRA
5th Bill Symes..... USA	<b>Laser Standard</b>	4th Tom Speed..... NZL	<b>Women Masters</b>
<b>Apprentices</b>	1st Brett Beyer..... AUS	5th Gregg Marshall..... AUS	1st Lyndall Patterson..... AUS
1st Richard Bott..... AUS	2nd Orlando Gledhill..... GBR	<b>Women</b>	<b>Grand Masters</b>
2nd Scott Leith..... NZL	3rd Stephen Cockerill..... GBR	1st Christine Bridge..... AUS	1st Poopy Marcon..... FRA
3rd Scott Willmott..... AUS	4th Xav Leclair..... FRA	2nd Lyndall Patterson..... AUS	2nd Alden Shattuck..... USA
4th Edmund Tazi..... NZL	5th Erasun Echavarrri..... ESP	3rd Janet Kemp..... AUS	3rd Peter Whipp..... GBR
5th Matthias Bruhl..... GER	<b>Masters</b>	4th Hilary Thomas..... GBR	4th Heini Wellmann..... SUI
<b>Women Apprentices</b>	1st Arnoud Hummel..... NED	5th Lesley Hotchin..... GBR	5th David Edmondson..... AUS
1st Alison Casey..... AUS	2nd Al Clark..... CAN	<b>2005 Fortaleza, BRA</b>	<b>Great Grand Masters</b>
2nd Yvonne Malmsten..... SWE	3rd César Sierhuis..... NED	Entries 183 Countries 25	1st Peter Seidenberg..... USA
3rd Kimberley Couranz..... USA	4th Scott Ferguson..... USA	<b>Laser Standard</b>	2nd Jack Hansen..... NZL
<b>Masters</b>	5th Peter Vessella..... AUS	<b>Apprentices</b>	3rd Kenneth Holliday..... RSA
1st Carlos E. Wanderley..... BRA	<b>Grand Masters</b>	1st Brett Beyer..... AUS	4th Denis O'Sullivan..... IRL
2nd Greg Adams..... AUS	1st Mark Bethwaite..... AUS	2nd Xavier Leclair..... FRA	5th David Edmondson..... AUS
3rd Joao Ramos..... BRA	2nd Michael Nissen..... GER	3rd Scott Ferguson..... USA	<b>2003 Cadiz, ESP</b>
4th Michael Knowsley..... NZL	3rd Anders Sörensson..... SWE	4th Mark Page..... NZL	Entries 236 Countries 27
5th Nigel Heath..... CAN	4th Jack Schlachter..... AUS	5th Larry Kleist..... AUS	<b>Laser Standard</b>
<b>Women Masters</b>	5th William Symes..... USA	<b>Masters</b>	<b>Apprentices</b>
1st Lyndall Patterson..... AUS	<b>Laser Radial</b>	1st Murray Thom..... NZL	1st Mark Littlejohn..... GBR
2nd Vanessa Dudley..... AUS	<b>Apprentices</b>	2nd Peter Conde..... AUS	2nd Stephen Cockerill..... GBR
3rd Agneta Jonsson..... SWE	1st Mark..... NZL	3rd Kurt Miller..... USA	3rd Brett Beyer..... AUS
<b>Grand Masters</b>	2nd Freek Miranda..... NED	4th Gonzalo Campero..... ARG	4th Jyrki Taiminen..... FIN
1st Peter Heywood..... AUS	3rd Wilmar Groenendijk..... NED	5th Vann Wilson..... USA	5th Huub Lambrichx..... NED
2nd Michael Pridham..... GBR	4th Matthias Bruhl..... GER	<b>Grand Masters</b>	<b>Masters</b>
3rd Ian Rawet..... GBR	5th David Early..... AUS	1st Mark Bethwaite..... AUS	1st Anders Sorensson..... SWE
4th Alden Shattuck..... USA	<b>Women Apprentices</b>	2nd Nicolas Livingstone..... GBR	2nd Chris Raab..... USA
5th Kevin Pearson..... GBR	1st Agneta Jonsson..... SWE	3rd Keith Wilkins..... GBR	3rd Malcolm Courts..... GBR
<b>Women Grand Masters</b>	2nd Yvonne Malmsten..... SWE	4th Ted Moore..... USA	4th Nick Harrison..... GBR
1st Sally Sharp..... USA	3rd Christelle Marsault..... FRA	5th John Dawson Edwards..... CAN	5th Alexander Nikolaev..... RUS
2nd Hilary Thomas..... GBR	<b>Masters</b>	<b>Laser Radial</b>	<b>Grand Masters</b>
3rd Gill Waiting..... NZL	1st Greg Adams..... AUS	<b>Apprentices</b>	1st Mark Bethwaite..... AUS
<b>Great Grand Masters</b>	2nd Robert Cage..... GBR	1st Mark Orams..... NZL	2nd Keith Wilkins..... GBR
1st Peter Seidenberg..... USA	3rd Martin Baltischeffsky..... FIN	2nd Stephen Cockerill..... GBR	3rd Kevin Pearson..... GBR
2nd Kerry Waraker..... AUS	4th John Reay..... GBR	3rd Carlos Eduardo Wanderley..... BRA	4th Kim Weber..... FIN
3rd Michael Kinnear..... GBR	5th Richard Major..... GBR	4th David Early..... HKG	5th William Symes..... USA
4th Jim Quinn..... NZL	<b>Women Masters</b>	5th Wilmar Groenendijk..... NED	<b>Laser Radial</b>
5th Lindsay Hewitt..... USA	1st Lyndall Patterson..... AUS	<b>Women Apprentices</b>	<b>Apprentices</b>
<b>Women Great Grand Masters</b>	2nd Janet Kemp..... AUS	1st Kim Ferguson..... USA	1st Wilmar Groenendijk..... NED
1st Deirdre Webster..... CAN	3rd Claudine Taitibouet..... FRA	2nd Lisa Garaty..... AUS	2nd Thomas Deimling..... GER
<b>2008 Terrigal, AUS</b>	<b>Grand Masters</b>	<b>Masters</b>	3rd Roberta Hartley..... GBR
Entries 370 Countries 22	1st Peter Heywood..... AUS	1st Alexander Nikolaev..... RUS	4th Martin Baltischeffsky..... FIN
<b>Laser Standard</b>	2nd Peter Whipp..... GBR	2nd Adam French..... USA	5th Luis Martin Propato..... ARG
<b>Apprentices</b>	3rd Alden Shattuck..... USA	3rd Chris Raab..... USA	<b>Women Apprentices</b>
1st Brett Beyer..... AUS	4th Ian Rawet..... GBR	4th Aldo Cezar Guimarães..... BRA	1st Roberta Hartley..... GBR
2nd Rohan Lord..... NZL	5th Serge Raphaelen..... FRA	5th Lyndall Patterson..... AUS	2nd Yvonne Malmsten..... SWE
3rd Jyrki Taiminen..... FIN	<b>Women Grand Masters</b>	<b>Women Masters</b>	3rd Susan Brown..... GBR
4th Orlando Gledhill..... GBR	1st Hilary Thomas..... GBR	1st Lyndall Patterson..... AUS	<b>Masters</b>
5th Christopher Gowers..... GBR	2nd Caroline Marriage..... GBR	2nd Janet Kemp..... AUS	1st Alastair McMichael..... AUS
<b>Masters</b>	<b>Great Grand Masters</b>	3rd Kathy Herrmann..... AUS	2nd Bruce Martinson..... USA
1st Jan Scholten..... AUS	1st Peter Seidenberg..... USA	<b>Grand Masters</b>	3rd Lyndall Patterson..... AUS
2nd Bradley Taylor..... AUS	2nd Kerry Waraker..... AUS	1st Peter Heywood..... AUS	4th Christian Borenus..... FIN
3rd Peter Conde..... AUS	3rd Heini Wellmann..... SUI	2nd Gary McCrohon..... AUS	5th Peter Whipp..... GBR
4th Andy Roy..... CAN	4th Greg Marshall..... AUS	3rd Alden Shattuck..... USA	<b>Women Masters</b>
5th Colin Dibb..... CAN	5th Bill Watson..... GBR	4th Poopy Marcon..... FRA	1st Lyndall Patterson..... AUS
<b>Grand Masters</b>	<b>Women Great Grand Masters</b>	5th Peter Whipp..... GBR	2nd Jan Kemp..... AUS
1st Mark Bethwaite..... AUS	1st Deirdre Webster..... CAN	<b>Great Grand Masters</b>	3rd Okumura Hiroko..... JPN
2nd Wolfgang Gerz..... GER	<b>2006 Jeju Island, KOR</b>	1st Kerry Waraker..... AUS	<b>Grand Masters</b>
3rd Jack Schlachter..... AUS	Entries 72 Countries 14	2nd Peter Seidenberg..... USA	1st Alden Shattuck..... USA
4th Robert Lowndes..... AUS	<b>Laser Standard</b>	3rd Denis O'Sullivan..... IRL	2nd Henk Wittenberg..... NED
5th Michael Nissen..... GER	<b>Apprentices</b>	4th Heini Wellmann..... SUI	3rd Gary McCrohon..... AUS
<b>Laser Radial</b>	1st Brett Beyer..... AUS	5th Sandy Grigg..... NZL	4th Roger Williams..... BER
<b>Apprentices</b>	2nd Orlando Gledhill..... GBR	<b>2004 Bitez, TUR</b>	5th Grand Jeanne..... FRA
1st James Liebl..... USA	3rd Giles Grigg..... NZL	Entries 153 Countries 30	<b>Great Grand Masters</b>
2nd John Jagger..... AUS	4th Richard Blakey..... NZL	<b>Standard Rig</b>	1st Peter Seidenberg..... USA
3rd Richard Bott..... AUS	5th Kevin Currier..... RL	<b>Apprentices</b>	2nd Tom Speed..... NZL
4th Scott Leith..... NZL	<b>Masters</b>		3rd Bill Watson..... GBR

5th Denis O'Sullivan..... RL	2nd Alexandre Nikolaev..... RUS	2nd Doug Bates..... NZL	<b>Great Grand Masters</b>
<b>2002 Hyannis, USA</b>	3rd Terry Scutcher..... GBR	3rd Graham Reed..... AUS	1st Doug Bates..... NZL
Entries 270 Countries 24	4th Bill O'Hara..... IRL	4th Peter Raymer..... GBR	2nd Robert Saltmarsh..... USA
<b>Laser Standard</b>	5th Martin Hallsten..... SWE	5th Robert Saltmarsh..... USA	<b>Women</b>
<b>Apprentices</b>	<b>Masters</b>	<b>Laser Radial Open</b>	1st Jill Robertson..... CAN
1st Andreas John..... GER	1st Mark Bethwaite..... AUS	1st Wilmar Groenendijk..... NED	2nd Sally Sharp..... USA
2nd Brett Beyer..... AUS	2nd Rob Couths..... NZL	2nd Aydin Yurdum..... TUR	<b>1991 Porto Carras, GRE</b>
3rd Mark Littlejohn..... GBR	3rd Doug Peckover..... USA	3rd Alexandre Nikolaev..... RUS	Entries 107 Countries 23
4th Andrew Pimental..... USA	4th Jacy Schlachter..... AUS	4th Gary McCrohon..... AUS	<b>Laser Standard</b>
5th Jyrki Taiminen..... FIN	5th Alan Keen..... RSA	5th Heinz Gebauer..... CAN	<b>Apprentices</b>
<b>Masters</b>	<b>Grand Masters</b>	<b>1996 Cape Town, RSA</b>	1st Stephen Birbeck..... GBR
1st Ed Adams..... USA	1st Keith Wilkins..... GBR	Entries 155 Countries 21	2nd Mark Phillips..... AUS
2nd Mark Bear..... USA	2nd Dick Tillmann..... USA	<b>Laser Standard</b>	3rd Mario Orlich..... ITA
3rd Peter Vessella..... USA	3rd Joe van Rossem..... CAN	<b>Apprentices</b>	4th Geoffrey McGillivray..... AUS
4th Charles Tripp..... USA	4th Ian Rawet..... GBR	1st Peter Wilson..... RSA	5th Peter Wolfe..... RL
5th Tracy Usher..... USA	5th Tom Speed..... NZL	2nd Robert Douglass..... AUS	<b>Masters</b>
<b>Grand Masters</b>	<b>Laser Radial</b>	3rd Regis Berengueri..... GBR	1st Keith Wilkins..... GBR
1st Keith Wilkins..... GBR	<b>Great Grand Masters</b>	4th Terry Scutcher..... AUS	2nd Peter Seidenberg..... CAN
2nd Bill Symes..... USA	1st Henry de Wolf Jr..... USA	5th Chris Rodowicz..... AUS	3rd Barry Waller..... AUS
3rd Peter Seidenberg..... USA	2nd Kurt Zueger..... SUI	<b>Masters</b>	4th Willi Gerlinger..... GER
4th Robert Lowndes..... AUS	3rd Heinz Gebauer..... CAN	1st Keith Wilkins..... GBR	5th Ikka Schoderus..... FIN
5th Jack Hansen..... NZL	4th Gedhay Myburgh..... CAN	2nd Mark Bethwaite..... AUS	<b>Grand Masters</b>
<b>Laser Radial</b>	5th Robert Saltmarsh..... USA	3rd Alan Keen..... RSA	1st Colin Lovelady..... AUS
<b>Apprentices</b>	<b>Laser Radial Open</b>	4th Barry Waller..... AUS	2nd Peter Seidenberg..... GBR
1st Stephen Cockerill..... GBR	1st Adam French..... AUS	5th Doug Peckover..... USA	3rd Heinz Gebauer..... CAN
2nd Mark Orams..... NZL	2nd Wilmar Groenendijk..... NED	<b>Grand Masters</b>	4th Nick Payne..... GBR
3rd Wilmar Groenendijk..... NED	3rd Glyn Purnell..... GBR	1st Ben Piefke..... AUS	5th Tony Denham..... AUS
4th Ryan Minth..... USA	4th Lewis Van der Wal..... AUS	2nd Denis O'Sullivan..... RL	<b>1990 New Bedford, USA</b>
5th Robert Falk..... USA	5th Henry de Wolf Jr..... USA	3rd Colin Lovelady..... AUS	Entries 112 Countries 19
<b>Masters</b>	<b>Laser Radial Women</b>	4th Peter Seidenberg..... USA	<b>Apprentices</b>
1st Adam French..... AUS	1st Sally Sharp..... USA	5th Ken Holiday..... RSA	1st Kim Zetterberg..... USA
2nd Alden Shattuck..... USA	2nd Jennie King..... GBR	<b>Laser Radial</b>	2nd Michael Stovin-Bradford..... AUS
3rd Bruce Martinson..... USA	3rd Karyn Voo's..... USA	<b>Laser Radial Open</b>	3rd Mark Phillips..... AUS
4th Diane Burton..... USA	4th Alison Knight..... IVB	1st Adam French..... AUS	4th Geoffrey McGillivray..... AUS
5th Richard Ineson..... NZL	<b>1999 Melbourne, AUS</b>	2nd Alexandre Nikolaev..... RUS	5th Had Brick..... USA
<b>Grand Masters</b>	Entries 237 Countries 22	3rd Kevin Bloor..... AUS	<b>Masters</b>
1st Lindsay Hewitt..... NZL	<b>Laser Standard</b>	4th Rui Sancho..... AUS	1st Denis O'Sullivan..... IRL
2nd Colin Maddren..... NZL	<b>Apprentices</b>	5th Gary McCrohon..... AUS	2nd Peter Seidenberg..... CAN
3rd Mark Miller..... NZL	1st Mark Littlejohn..... GBR	<b>1995 Tenerife, ESP</b>	3rd Joe van Rossem..... CAN
4th James Johnston..... USA	2nd Andreas John..... GER	Entries 113 Countries 20	4th Curt Blidner..... SWE
5th Lew Verdon..... AUS	3rd Alan Davis..... GBR	<b>Apprentices</b>	5th David Olson..... USA
<b>Great Grand Masters</b>	4th Bill O'Hara..... IRL	1st Nicholas Harrison..... GBR	<b>Grand Masters</b>
1st Dick Tillman..... USA	5th Brad Taylor..... AUS	2nd Lance Burger..... RSA	1st Friedhelm Lixenfeld..... GER
2nd Henry de Wolf Jr..... USA	<b>Masters</b>	3rd Tomas Franzen..... SWE	2nd Jim Christopher..... USA
3rd Heinz Gebauer..... CAN	1st Keith Wilkins..... GBR	4th Peter Saxton..... GBR	3rd Tony Denham..... AUS
4th Jim Christopher..... USA	2nd Peter Sundheim..... SWE	5th Norio Akiyama..... JPN	4th Norman Freeman..... USA
5th Peter Raymer..... GBR	3rd Doug Peckover..... USA	<b>Masters</b>	5th Nick Payne..... GBR
<b>Women</b>	4th Jack Schlachter..... AUS	1st Keith Wilkins..... GBR	<b>1989 Aarhus, DEN</b>
1st Diane Burton..... USA	5th Timothy Alexander..... AUS	2nd Barry Waller..... AUS	Entries 114 Countries 25
2nd Jane Codman..... USA	<b>Grand Masters</b>	3rd Ted Moore..... USA	<b>Apprentices</b>
3rd Sally Sharp..... NZL	1st Graham Oborn..... AUS	4th Pieter Dekker..... NED	1st Keith Wilkins..... GBR
4th Yvonne Malmsten..... SWE	2nd Jack Hansen..... NZL	5th Jeff Nebeel..... FRA	2nd Phil Graves..... CAN
5th Debbie Phillips..... GBR	3rd Keith Vann..... NZL	<b>Grand Masters</b>	3rd Jeff Loosemore..... AUS
<b>2001 Cork, IRL</b>	4th Ben Piefke..... AUS	1st Colin Lovelady..... AUS	4th Had Brick..... USA
Entries 314 Countries 25	5th Kerry Waraker..... AUS	2nd Peter Seidenberg..... USA	5th Peter Griffiths..... NZL
<b>Laser Standard</b>	<b>Laser Radial</b>	3rd Jack Hansen..... NZL	<b>Masters</b>
<b>Apprentices</b>	<b>Great Grand Masters</b>	4th Joe Van Rossem..... CAN	1st John Rigg..... AUS
1st Brett Beyer..... AUS	1st Mark Orams..... AUS	5th Michael Heath..... CAN	2nd Curt Blidner..... SWE
2nd Mark Littlejohn..... GBR	2nd Haruyoshi Kimura..... JPN	<b>1994 Wakayama, JPN</b>	3rd Christer Baath..... SWE
3rd Doug McGain..... AUS	3rd Geoffrey Myburgh..... RSA	Entries 131 Countries 15	4th Dennis O'Sullivan..... CAN
4th Mark Little..... RL	4th Kurt Zueger..... SUI	<b>Apprentices</b>	5th Peter Seidenberg..... CAN
5th Marc Jacobi..... USA	5th Peter O'Grady..... AUS	1st Norio Akiyama..... JPN	<b>Grand Masters</b>
<b>Masters</b>	<b>Laser Radial Open</b>	2nd Nicholas Harrison..... GBR	1st Friedhelm Lixenfeld..... GER
1st Colin Dibb..... AUS	NZL	3rd Nelson Horn Ilha..... BRA	2nd Jack Swenson..... USA
2nd Ian Linberger..... AUS	2nd Alexandre Nikolaev..... RUS	4th Koichiro Naito..... JPN	3rd Heinz Gebauer..... CAN
3rd Anders Sorensson..... SWE	3rd Frank Immon..... AUS	5th Doug Peckover..... USA	4th Nick Payne..... GBR
4th Mark Bethwaite..... AUS	4th Wilmar Groenendijk..... NED	<b>Masters</b>	5th Robert Saltmarsh..... USA
5th Malcolm Courts..... GBR	5th Adam French..... AUS	1st Keith Wilkins..... GBR	<b>1988 Falmouth, GBR</b>
<b>Grand Masters</b>	<b>Laser Radial Women</b>	2nd Hiroyuki Uehara..... JPN	Entries 156 Countries 24
1st Keith Wilkins..... GBR	1st Lyndal Patterson..... AUS	3rd Mark Bethwaite..... AUS	<b>Apprentices</b>
2nd Philip Pegler..... AUS	2nd Helen Cooksey..... AUS	4th Katsumi Hirano..... JPN	1st Jeff Loosemore..... AUS
3rd Jacky Nelman..... FRA	3rd Sally Sharp..... USA	5th Ian Rawet..... GBR	2nd Philip Graves..... CAN
4th Bob Blackley..... NZL	4th Susan Fielding..... AUS	<b>Grand Masters</b>	3rd Had Brick..... USA
5th Barry Waller..... AUS	5th Lesley Hotchin..... GBR	1st Colin Lovelady..... AUS	4th Keith Wilkins..... GBR
<b>Laser Radial</b>	<b>1997 Algarbo, CHI</b>	5th Peter Heywood..... AUS	5th Peter Heywood..... AUS
<b>Great Grand Masters</b>	Entries 128 Countries 21	3rd Denis O'Sullivan..... RL	<b>Masters</b>
1st Henry de Wolf Jr..... USA	<b>Laser Standard</b>	4th Barry Pownall..... AUS	1st Peter Seidenberg..... CAN
2nd Fradin Schoettie..... USA	<b>Apprentices</b>	5th Tony Denham..... AUS	2nd Colin Lovelady..... AUS
3rd Heinz Gebauer..... CAN	1st Herman Cristian..... CHI	<b>1993 Takapuna, NZL</b>	3rd John Maynard..... GBR
4th Anthony Denham..... AUS	2nd Alan Davis..... GBR	Entries 186 Countries 23	4th John Rigg..... AUS
5th James Christopher..... USA	3rd Marcelo Fuschs..... BRA	<b>Apprentices</b>	5th John Sedson..... USA
<b>Laser Radial Open</b>	4th Terry Scutcher..... GBR	1st Paul Page..... NZL	<b>Grand Masters</b>
1st Stephen Cockerill..... GBR	5th Bill O'Hara..... IRL	2nd Neville Withey..... NZL	1st Friedhelm Lixenfeld..... GER
2nd Wilmar Groenendijk..... NED	<b>Masters</b>	3rd Murray Thom..... NZL	2nd Geoffrey Myburgh..... RSA
3rd Thomas Urban..... SWE	1st Doug Peckover..... USA	4th Andrew York..... AUS	3rd Heinz Gebauer..... CAN
4th John Reel..... GBR	2nd Peter Seidenberg..... USA	5th Lance Burroughs..... USA	4th Peter Milnes..... USA
5th Jean Luc Michon..... FRA	3rd Keith Wilkins..... GBR	<b>Masters</b>	5th Jan Neuxen..... NED
<b>Laser Radial Women</b>	4th Jack Schlachter..... AUS	1st Keith Wilkins..... GBR	<b>1987 Melbourne, AUS</b>
1st Roberta Hartley..... GBR	5th Barry Waller..... AUS	2nd John Rigg..... AUS	Entries 106 Countries 22
2nd Lyndal Patterson..... AUS	<b>Grand Masters</b>	3rd Mark Bethwaite..... AUS	<b>Apprentices</b>
3rd Claire Davison..... GBR	1st Colin Lovelady..... AUS	4th Barry Waller..... AUS	1st Phil Pegler..... AUS
4th Yvonne Malmsten..... SWE	2nd Peter Seidenberg..... USA	5th John Douglas..... NZL	2nd Warwick Phillips..... AUS
5th Jan Kemp..... AUS	3rd Wilhelm Gerlinger..... GER	<b>Grand Masters</b>	3rd John Sprague..... AUS
<b>2000 Cancun, MEX</b>	4th Joe Van Rossem..... CAN	1st Colin Lovelady..... AUS	4th Geoff Galle..... AUS
Entries 147 Countries 20	5th Jack Hansen..... NZL	2nd Denis O'Sullivan..... USA	5th Willi Gerlinger..... GER
<b>Laser Standard</b>	<b>Laser Radial</b>	3rd Barry Pownall..... AUS	<b>Masters</b>
<b>Apprentices</b>	<b>Great Grand Masters</b>	4th Ralph Ellis..... AUS	1st John Rigg..... AUS
1st Alan Davis..... GBR	1st Heinz Gebauer..... CAN	5th John Maynard..... GBR	2nd Michael Heath..... AUS

3rd Peter Seidenberg . . . . . CAN  
 4th Colin Lovelady . . . . . AUS  
 5th Greg Marshall . . . . . AUS

#### Grand Masters

1st Alan Clark . . . . . AUS  
 2nd Alec McClure . . . . . AUS  
 3rd Graham Gilbert . . . . . AUS  
 4th Doug Bates . . . . . NZL  
 5th Bob White . . . . . AUS

#### 1985 World Masters Games

##### Toronto, CAN

Entries 101

#### Apprentices

1st David Olsen . . . . . USA  
 2nd Ben Lashaway . . . . . USA  
 3rd Richard Gronblom . . . . . FIN

#### Masters

1st Peter Seidenberg . . . . . CAN  
 2nd Colin Lovelady . . . . . AUS  
 3rd Peter Lundt . . . . . USA

#### Grand Masters

1st Alec McClure . . . . . AUS  
 2nd Alexander Nimick . . . . . USA  
 3rd Alistair Taig . . . . . USA

#### 1984 Pattaya, THA

Entries 62 Countries 22

#### Apprentices

1st Richard Verco . . . . . AUS  
 2nd Paul Millsom . . . . . AUS  
 3rd Kim Weber . . . . . FIN  
 4th Roger Williams . . . . . UAE  
 5th Ilkka Schroderus . . . . . FIN

#### Masters

1st John Rigg . . . . . AUS  
 2nd Peter Seidenberg . . . . . CAN  
 3rd Colin Lovelady . . . . . AUS  
 4th Michael Heath . . . . . AUS  
 5th Denis O'Sullivan . . . . . RL

#### Grand Masters

1st Alex McClure . . . . . AUS  
 2nd Doug Bates . . . . . NZL  
 3rd Alan Clark . . . . . AUS  
 4th Robert Saltmarsh . . . . . USA  
 5th Alf Johnson . . . . . USA

#### 1983 Gulfport, USA

Entries 70

#### Apprentices

1st Tucker Bragdon . . . . . USA  
 2nd Philip Peglar . . . . . AUS  
 3rd Peter Branning . . . . . USA  
 4th Carolle Spooner . . . . . CAN  
 5th Roger Williams . . . . . QAT

#### Masters

1st Norman Freeman . . . . . USA  
 2nd Randall Swan . . . . . USA  
 3rd Dick Rose . . . . . USA  
 4th Heinz Gebauer . . . . . CAN  
 5th Geoff Myburgh . . . . . RSA

#### Grand Masters

1st Alan Clark . . . . . AUS  
 2nd Alan Levinson . . . . . USA  
 3rd Bob Saltmarsh . . . . . USA  
 4th Peter Milnes . . . . . USA  
 5th Alf Johnson . . . . . RSA

#### 1982 Sardinia, ITA

Entries 82

#### Apprentices

1st Paul Millsom . . . . . AUS  
 2nd Jack Nebrel . . . . . FRA  
 3rd Michael Wallace . . . . . RL  
 4th Michael Heath . . . . . AUS  
 5th Tony Manning . . . . . AUS

#### Masters

1st Hans-Luther Striewe . . . . . GER  
 2nd Geoff Myburgh . . . . . RSA  
 3rd Nick Paine . . . . . GBR  
 4th Jack Swenson . . . . . USA  
 5th Hugo Kroth . . . . . GER

#### Grand Masters

1st Alan Clark . . . . . AUS  
 2nd Alex McClure . . . . . AUS  
 3rd Cecil Walker . . . . . GBR  
 4th Bob Saltmarsh . . . . . USA  
 5th William ter Weld . . . . . NED

#### 1981 Bendor, FRA

Entries 52 Countries 11

#### Apprentices

1st Jacky Nebrel . . . . . FRA  
 2nd Michael Teiken . . . . . GER  
 3rd Michael Nerbollier . . . . . SUI  
 4th Werner Winter . . . . . GER  
 5th Wolf Peter Niesen . . . . . GER

#### Masters

1st Nick Paine . . . . . GBR  
 2nd Maudez de Cozannet . . . . . FRA  
 3rd Lucien Bouche . . . . . FRA  
 4th Horst Kimm . . . . . GER  
 5th Michael Tuson . . . . . QAT

#### Grand Masters

1st Alan Clark . . . . . AUS  
 2nd Cecil Walker . . . . . GBR  
 3rd Pierro Marchetti . . . . . ITA  
 4th Vittorio Baldoni . . . . . ITA  
 5th John Nouwen . . . . . NED

#### 1980 Bendor, FRA

Entries 67 Countries 15

#### Apprentices

1st Svend Carlsen . . . . . DEN  
 2nd Werner Winter . . . . . GER  
 3rd Jacky Nebrel . . . . . FRA

#### Masters

1st Nick Paine . . . . . GBR  
 2nd Alf Johnson . . . . . RSA  
 3rd Peter Fordham . . . . . GBR

#### Grand Masters

1st Sam Small . . . . . USA  
 2nd Cecil Walker . . . . . GBR  
 3rd Vittorio Baldoni . . . . . ITA

# International Laser Class Association



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By registering you will be immediately informed of any Laser events that are taking place in your district as well as updates on any information relevant to you.

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Date of Birth..... Male      Female

Zip Code / Postcode ..... ☐ ..... ☐

Country .....

Email .....

Tel Number: Home.....

Work .....

Laser Rig (tick box)    Standard      Radial      Laser 4.7

Laser Sail Number..... ☐ ..... ☐ ..... ☐

Dealer where Laser was purchased





**Laser 4.7**



**Laser Radial**



**Laser Standard**

**International Laser Class Association**  
**PO Box 26, Falmouth, Cornwall TR11 3TN**  
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