

International Laser Class Association



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2019 Handbook

Constitution and Class Rules



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International Laser Class Association 2019 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 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.



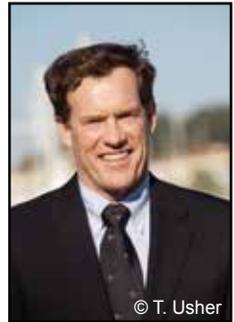
Eric Faust
ILCA World Executive Secretary



From our President

A boat for Life in a Lifetime Sport

In 2019 the Laser Class enters its 47th year of existence and will this Summer crown its 46th World Champion, and notably its 39th female world champion (having first recognized a female world champion in 1980)! What is really different now is that this Summer will see world championships conferred upon competitors in the 4.7, Radial and Standard classes, some 11 champions in all! This is quite an achievement for what is now the most popular single-handed sailing dinghy in the world. And be sure that as the Laser Class looks forward to its 50th birthday it is also working hard to make sure the next 50 years see continued growth.



2019 is the penultimate year in the current quadrennium leading to the XXXII Olympiad to be sailed in Fujisawa, Japan and is the year that Olympic hopefuls from around the world are really hitting their stride. This will mark the seventh games for the Laser Standard since its first appearance at the XXVI Olympiad held in Atlanta, Georgia in 1996, and the fourth games for the Laser Radial since its first appearance at the XXIX Olympiad held in Beijing, China in 2008. Both are firmly established as the Olympic singlehanded dinghies for the men and women and are the most popular of the Olympic classes. If the first year is any indication, the remaining two years leading to the games are going to be very exciting! More important, we look forward to several more Olympic games for both!

The Laser was not a young class when it was first chosen for the Olympics but it was certainly ready. It has opened the door to Olympic sailing for a number of new countries and continues to do so year on year. The "Laser Formula" of three rigs for one hull has developed into 3 classes (Laser 4.7, Radial and Standard) for different weight ranges of sailors. It provides a low-cost pathway through age and weight growth and sailing development from the Optimist to the Olympics. This has helped the Laser grow to where it is today with many of the over 200,000 Lasers still in action in over 120 countries.

Laser is the boat for life. It has a special charm that excites the holiday maker sailing off a sunny beach and technically challenges the racing sailor to continually develop their boat and sail trim to get to the front of a racing fleet. The one design rules are a great leveller where the competition is close – respect must be earned and friendships are born that last a lifetime.

Not everyone will make it to the front of a Laser fleet but the racing is fun and lessons learned will always serve them well. Some will go on to try their hands at Olympic level competition in other classes. Many will continue to sail their boats at the club level and eventually move into Laser Masters sailing where they will find new competition and friends on national and international circuits.

All of this is held together by the true strength of the Laser Class - its members, in particular the many who share their love of Laser sailing by volunteering their time to organize and run events and help to keep Laser sailing the best racing to be found anywhere!

We have something very special in sailing.

A handwritten signature in black ink that reads "Tracy Usher". The signature is fluid and cursive, with a long, sweeping underline.

Tracy Usher
ILCA President

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 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 World Championships to help provide incentive!

Go Sailing, Go Racing

Sailing is great but Laser sailing is a little bit more special. You are completely 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. When you are able to do that while comparing your skills against other sailors in competition, the excitement is multiplied. The simple joy of Laser sailing is what launched the boat to success when it was introduced. And it is the fact that you can find active Laser sailors all over the world to sail with and compete against that keeps the Laser the most popular boat of its type world wide.

If you need a little help learning about the boat there are a number of books and many on-line resources covering all aspects of Laser sailing and racing. But for many of us, the best way to get to know your boat better is to go racing. It also means you can meet like-minded sailors.

Most of us start by racing in a local fleet. 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 22 or check out the contact list on the ILCA website). Over 90% of Laser racing takes place during a couple of hours in an evening or on a weekend. Most racing takes place from sailing or water sports clubs and you are almost certain to see a full range of experience at the local club where beginners and experts are welcome. Your club may even organise training weekends and bring in visiting coaches and you will certainly benefit from talking to and watching others.



After a while you may wish to enjoy 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. Again, your national Laser association can help you identify opportunities.

A National Championship is often the highlight of the annual racing calendar. These events usually are open to all comers and all levels of skill. You can experience the excitement of racing in a large fleet of between 30 and 100+ Laser sailors. 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, Laser racing generally has open entry and there are many national and international regattas you can go to with only a limited amount of experience.

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

Contact your national Laser Class association to find out what activities are available. Check out the contact list on our website at www.laserinternational.org.

The Laser Formula

A choice of rigs for different size 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 a great variety of wind conditions and provide exciting but controlled sailing even for sailors 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 for sailors of different size and ability to sail in a wide range of 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 the lighter weight sailor graduating from Optimist.

The **Laser Radial** is the next step up in size. 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 Championships for Men, Women & Youth attracting as many countries and competitors as the Laser Standard Rig. In addition to having a strong following among lighter weight sailors, the Laser Radial is also used for youth, women and masters racing. Many countries support a full Laser Radial Youth program.

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.

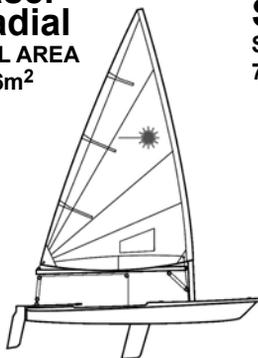
Laser 4.7

SAIL AREA
4.70m²



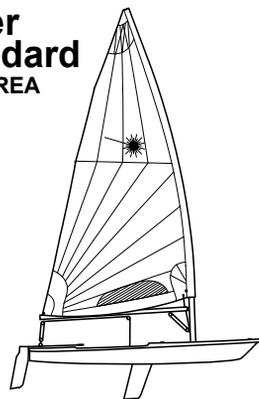
Laser Radial

SAIL AREA
5.76m²



Laser Standard

SAIL AREA
7.06m²



ILCA Age Policy and Useful Information

WORLD CHAMPIONSHIPS - general

As a result of high demand, the majority of Laser World Championships are allocated place events. The number of places a country receives for their sailors to participate in a World Championship is based on the number of paid members in that country.

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**	2007	2006	2005	2004	2003	2002	2001	2000	1999
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 2019 CHAMPIONSHIP** using this guide

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 be held in Laser 4.7 and Laser Radial rigs. ILCA also supports 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 2019 ILCA will organise Youth World Championships in the Laser Radial and Laser 4.7, following the above age limits, as well as 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 capable of sailing at a high level. They should be experienced in big fleets and able to sail well in all conditions, including waves and high winds. 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, at times it may be appropriate to run "open" Laser 4.7 regattas for lighter weight sailors of all ages. At these events, separate category prizes for youth and women should also be considered, in a format similar to the Laser Radial.

LASER RADIAL - policy

With the exception of world and some continental championships most Laser Radial regattas are 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 rescoreing.



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 in Figure 1 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.

Fig. 1

Age Group	Masters Category	Fleet Colour
35 to 44	Apprentice Master (Standard / Radial)	Green
45 to 54	Master (Standard / Radial)	Red
55 -64	Grand Master (Standard / Radial)	Blue
65 - 74	Great Grand Master (Standard / Radial)	Yellow
75 and over	Legends (Radial)	White

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

Personal Handicaps

The handicap numbers take into account the difference in boat speed as a result of the different size rigs but 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.

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

The Laser has been one of the most important platforms for developing sailing talent around the world. Many sailors who have had long and successful careers in Laser sailing have become coaches to help develop the next generation of Laser sailors.

On the ILCA website, we maintain contact information for a list of individuals, arranged by country, who have identified themselves as Laser coaches. There is a good chance you can find someone in your part of the world who could provide coaching if you are looking for it.

If you are a coach and would like to be listed on the website, please send your contact details and other related information to the ILCA office: office@laserinternational.org

ADVERTISING/SPONSORSHIP

Advertising, including competitor advertising, is permitted in accordance with World Sailing Regulation 20 – Advertising code; except that the sail window shall be kept free of advertising or other graphic material (Class Rule 10). Information about Regulation 20 is available through the World Sailing Website at: <http://www.sailing.org/documents/regulations/regulations.php>

ANTI-DOPING

The latest information about the World Sailing Anti-Doping Code can be found on the World Sailing website: <http://www.sailing.org/sailors/antidoping/index.php>

POLICY FOR TRANSLATING THE HANDBOOK

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

If you are interested in translating this handbook, please email your translation to ILCA at 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 this handbook, please contact the ILCA office.

What is the International Laser Class Association (ILCA)?

The International Laser Class Association (ILCA) is a worldwide sailing organization 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 class 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 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) – The World Council operates 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 Argentina, Australia, Canada, France, Singapore, Switzerland, UK and USA - all are active sailors and between them have a wealth of experience spread over all levels of sailing.

Contact information for the ILCA office, each Region and all active Laser class Districts can be found on the contacts page of the ILCA website at www.laserinternational.org/contacts. 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.



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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 World Sailing, 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 Championships for the class. Although these events may only involve a relatively small proportion of class members, the organisation of top quality championships has an effect on all sailors around the world. 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 communication and website?

The amount and quality of communication throughout the Laser Class is very important. ILCA maintains an active website (www.laserinternational.org) to keep members up to date with important announcement and news about Laser sailing around the world and serve as repository for helpful information, class rules and historical records. The ILCA maintains a social media presence to engage with sailors worldwide through facebook, twitter and instagram. The office also sends out to all Districts world wide notices with information to be distributed to sailors. Many Districts send out their own newsletters or maintain a website with information of local interest. Sailors who have questions can easily contact their District representative or the ILCA office through the website. And District officers can of course contact the ILCA office for assistance on matters relating to the Class.

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, World Sailing 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.***



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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! 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 the 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 made available to members.

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
- Organises World Championships at international level
- Administers the class worldwide
- Sets the standard that others aspire to achieve

Website: www.laserinternational.org

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

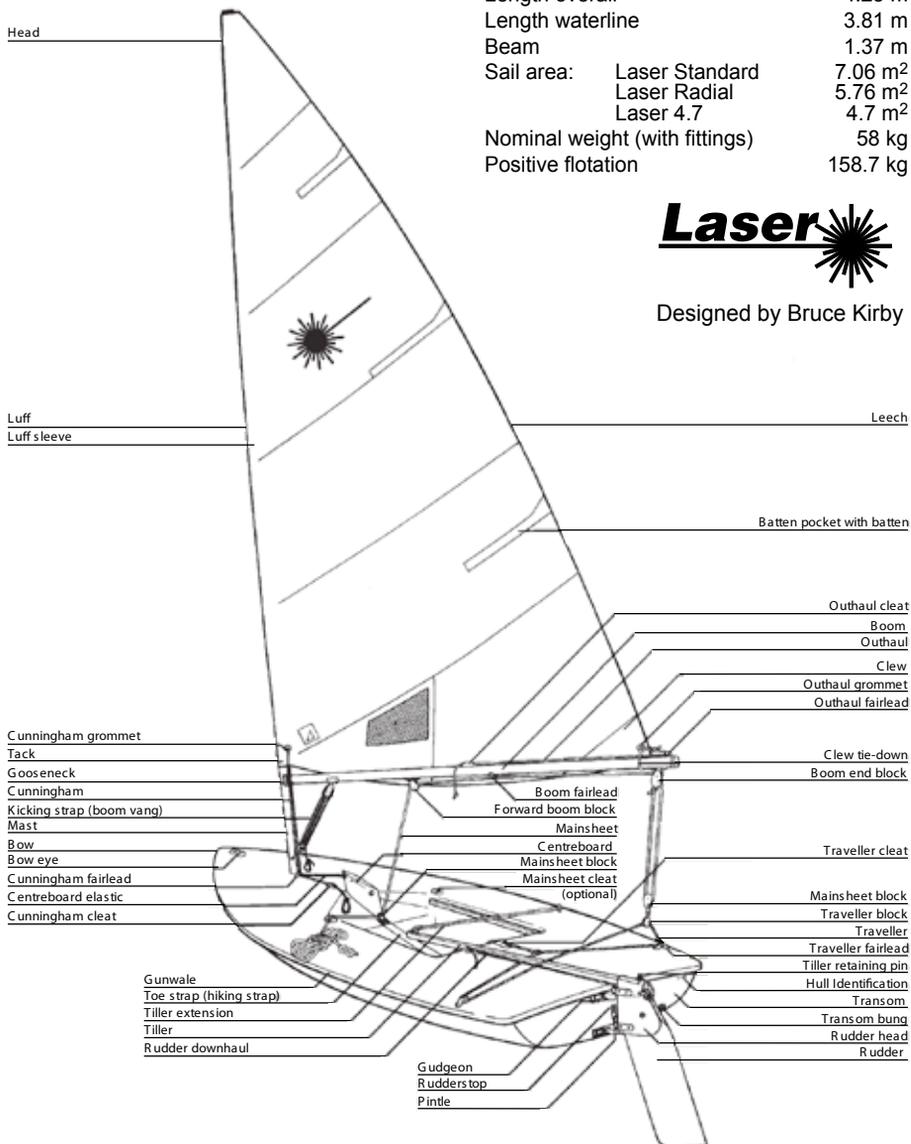
- Event information for all Laser world championships, including dates, allocations, Notice of Race, Charter Terms & Conditions and links to event venue websites.
- Full results, daily results and reports from all Laser World Championships.
- Archive of results from Laser World & Regional Championships since 1971.
- RSS Newsfeed, to keep you in the loop with breaking news from ILCA.
Facebook.com/intlaserclass, Twitter: ILCA @intlaserclass
- Bid pages - want to host an ILCA championship? You can find all the bid documents for World championships online.
- Past issues of LaserWorld, are available for all to download or view online.
- Tips and How-to guides that can help you become a better sailor.
- Regularly updated list of addresses for Laser contacts in each country.

Parts of the Laser

Length overall	4.23 m
Length waterline	3.81 m
Beam	1.37 m
Sail area:	
Laser Standard	7.06 m ²
Laser Radial	5.76 m ²
Laser 4.7	4.7 m ²
Nominal weight (with fittings)	58 kg
Positive flotation	158.7 kg



Designed by Bruce Kirby



INTERNATIONAL LASER CLASS ASSOCIATION

Constitution

© International Laser Class Association, Texas, USA

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, head office amended 1 January 2016.

NAME

1. The name of the association shall be the INTERNATIONAL LASER CLASS ASSOCIATION, with head office at PO Box 49250, Austin, Texas 78765, USA.

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 World Sailing.

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, World Sailing 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 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 approved 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 approved builders, the International Laser Class Association and World Sailing. 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.



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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 should 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 aforementioned 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 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. Sometimes a rule may seem ambiguous, with different people disagreeing about the meaning of a rule. In these situations, the Chief Measurer of the Class publishes in the Handbook as well as on the ILCA website interpretations to certain rules. Some of these interpretations may end up becoming a permanent part of the class rules through the rule change process.

Over the years changes have been made to the Laser and the LCM and the rules have evolved. When considering changes, the class and the builders have been 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 ILCA office. Proposals will be forwarded to the Chief Measurer and the members of the Technical and Measurement Committee who, after considering the proposal, may put the matter before the World Council. Finally, if the World Council and the Advisory Council agree, the rule change must be approved by two thirds of the membership. It may seem like a lengthy process but it helps insure that the one design nature of the class is maintained while still allowing for improvements in ease of use, durability and safety in order to enhance our sailing and racing experience.

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.) Be aware that any change requires the unanimous approval by all the builders, the International Laser Class Association and World Sailing, 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.

ILCA Member Districts 2019



ALGERIA
AMERICAN SAMOA
ANDORRA
ANGOLA
ANTIGUA
ARGENTINA
ARUBA
AUSTRALIA
AUSTRIA
AZERBAIJAN
BAHAMAS
BAHRAIN
BARBADOS
BELARUS
BELGIUM

BELIZE
BERMUDA
BRAZIL
BRITISH VIRGIN ISLANDS
BULGARIA
CAYMAN ISLANDS
CHILE
CHINA
CHINESE TAIPEI
COLOMBIA
COOK ISLANDS
CROATIA
CUBA
CYPRUS
CZECH REPUBLIC

DENMARK
DOMINICAN REPUBLIC
ECUADOR
EGYPT
EL SALVADOR
ESTONIA
FIJI
FINLAND
FRANCE
GERMANY
GIBRALTAR
GREECE
GUAM
GUATEMALA
HONG KONG

HUNGARY
ICELAND
INDIA
INDONESIA
IRAN
IRELAND
ISRAEL
ITALY
JAPAN
KAZAKHSTAN
KENYA
KOREA
KUWAIT
KYRGYZSTAN
LATVIA



KEY

 ILCA ACTIVE DISTRICT

LITHUANIA
LUXEMBOURG
MACAU
MACEDONIA
MALAYSIA
MALTA
MAURITIUS
MEXICO
MOLDOVA
MONACO
MONTENEGRO
MOROCCO
MOZAMBIQUE
MYANMAR
NETHERLANDS

NETHERLANDS ANTILLES
NEW ZEALAND
NIGERIA
NORTH AMERICA
NORWAY
OMAN
PAKISTAN
PERU
POLAND
PORTUGAL
PUERTO RICO
QATAR
ROMANIA
RUSSIA
SERBIA

SEYCHELLES
SINGAPORE
SLOVAKIA
SLOVENIA
SOUTH AFRICA
SPAIN
SRI LANKA
ST LUCIA
SWEDEN
SWITZERLAND
TAHITI
TANZANIA
THAILAND
TRINIDAD & TOBAGO
TUNISIA

TURKEY
TURKS & CAICOS
UGANDA
UKRAINE
UNITED ARAB EMIRATES
UNITED KINGDOM
URUGUAY
US VIRGIN ISLES
VENEZUELA
ZIMBABWE

COUNTRY AND DISTRICT CONTACTS (In Alphabetical Order)

Correct as at 01.01.18 Updated regularly on the ILCA website: www.laserinternational.org

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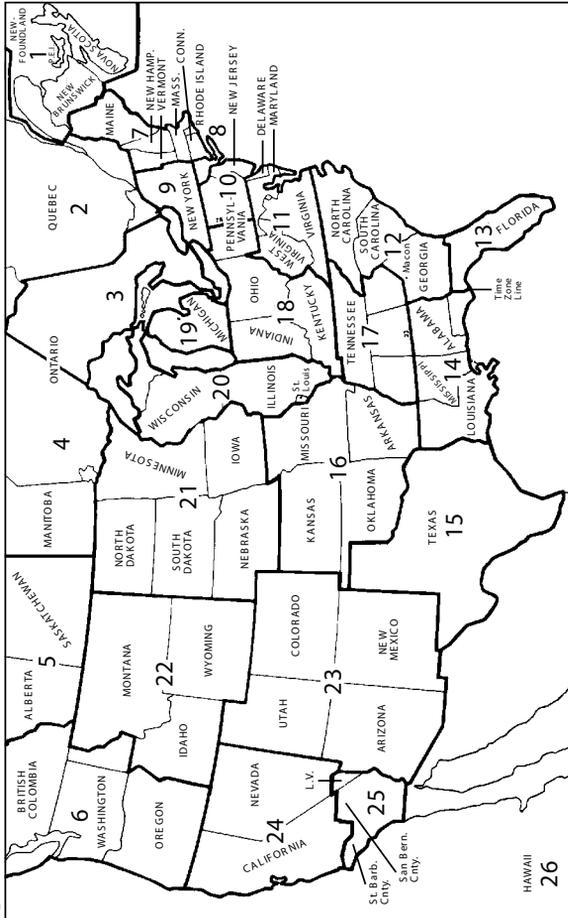
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Boat Care - Stresses and Strains

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 boats 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 us 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 challenging conditions. However, there is a limit to the number or kind of changes that can be made before performance is affected.

Mast

When the Laser was introduced, and for many decades after, the two part aluminium mast design involved a trade-off between strength, stiffness and weight. Any increase in strength of the mast would dramatically affect stiffness and therefore performance, which 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 while 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.

While the above can help you reduce the chance of causing a permanent upper mast bend, sailors seem intent on pushing the Laser harder and longer in ever more challenging conditions.

In 2017 Laser equipment manufacturers introduced a class approved composite upper mast section. The composite mast, while having performance characteristics similar to the aluminium top mast, is not subject to permanent bending. Like any piece of sailing equipment, it is not indestructible, but the composite top mast should provide sailors with a longer mast life and consistently reliable performance when out racing, training or pleasure sailing.



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.

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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The latest edition of the Laser Class Rules and By-Laws are available at www.laserinternational.org.

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

Valid from 1st January 2019. Cancels all previous rules and interpretations.

RECENT CHANGES:

1 January 2019

Part One modified to clarify that all sails used in competition shall have an ILCA supplied sail button to be class legal. (previous interpretation.)

Rule 3(b)i modified to remove the restriction on the use of aramid fibre rope for control lines. (previous interpretation)

Rule 3(b)ii modified to allow for local variation in thickness of control lines that is not specifically restricted to tapering. (previous interpretation)

Rule 3(b)vi modified to enable clam cleats to include a through hole attachment point. (previous interpretation)

Rule 19(a) modified to clarify that mast step abrasion tubes or collars may be in separate pieces. (previous interpretation)

Rule 31 modified to shorten the rule voting process from six months to one month and removing "votes to be sent by post".

1 January 2017

Rule 22 Compasses, Electronic Equipment and Timing Devices modified to allow use of digital compasses that are not GPS enabled.

New Rule 28 Added to allow boat or body mounted cameras.

Rule 3(f)vi modified to remove restriction on the attachment points of the shock cord inhaul.

Rule 17(c) modified to allow for the addition of one cleat and one turning point in the hiking strap support line that are not attached to the hull or hiking strap.

1 January 2016

4(f) National Letters: updated wording with instructions for positioning of letters on new *MKII* sail.

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 World Sailing and International Laser Class Association (ILCA) approved builder in strict adherence to the Laser design specification (known as the Construction Manual) which is registered with World Sailing.

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

World Sailing 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.

SAIL IDENTIFICATION

Sails manufactured after 1 January 2001 shall have attached near the tack of the sail an ILCA authorized sailmaker button purchased from the International Laser Class Association. Standard MKII sails shall have orange buttons and Radial, 4.7 and Standard MKI (cross-cut) sails shall have red buttons.

DEFINITION OF BUILDER

A Builder is a manufacturer that has the rights to use a Laser trademark, is manufacturing the hull, equipment, fittings, spars, sails and battens in strict adherence to the Construction Manual, and has been approved as a Laser Builder by each of World Sailing 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 a World Sailing 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 World Sailing.

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 cuningham, outhaul and vang **Control Line Systems** may include more than one **Control Line** as allowed in Rules 3(d), 3(e) 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 cuningham fairlead	Vang cleat block
Plastic cuningham clam cleat	Vang key block
Plastic outhaul clam cleat	Vang key
Plastic outhaul fairlead	Plastic traveller clam cleat
Plastic traveller fairleads	Mainsheet block

- 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) and 3(f).
- 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.
- ii. Control lines shall be of uniform thickness, but may vary in thickness 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 fairleads and clam cleats may be replaced in the same position with an identical size and shape fitting. Clam cleats may include a through hole attachment point. 
- 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 end/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 capsiz, 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).
- 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(e)**.

- 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 outhaul 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(f).

- 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(f)ii 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 may be used as an inhaul on the clew
- 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 outhaul 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. A splice that does not extend through the nearest traveller eye may be used at the non-free end.
- ii. A spring, ball or tape may be used between the traveller blocks.

4. SAIL REGISTRATION NUMBERS, NATIONAL LETTERS AND NATIONAL FLAG

(For Laser Radial and 4.7 sail number positions please see part 4 rule 29(e) and 30(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 World Sailing 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 digit 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.

(For additional guidance, see the Instructions for Applying Sail Numbers on p. 45 along with accompanying diagrams on pp. 46 - 49).

- (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:
- 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.
 - 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.
 - 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:

The letters on the starboard side of the *MK/I* sail shall

be placed along the top edge of the seam below the bottom batten pocket (+ or - 12mm), for the *MK/I* sail on a Base Line 400mm (+ or - 12mm) below the bottom batten pocket and on the port side of the sail along a line 400 mm (+ or - 12mm) 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 [also see diagrams on pages 52-55].

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**

- 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 diagram on page 36.
- The rhombus may be retained for racing in other events.

(h) **NATIONAL FLAG**

If required by the Notice of Race and the Sailing Instructions, a national flag with a nominal size of 567 x 337 mm shall be applied to both sides of the mainsail. For the Standard and Radial sails, flags shall be positioned such that the aft edge of the flag is within 100 and 150 mm of the leech and between the sail numbers and the batten pocket below the sail numbers. The flag shall be approximately parallel with the sail numbers and letters and shall not touch the numbers. For the 4.7 sail, the flag shall be positioned within 100 and 150 mm of the leech but below and within 50 mm of the bottom batten pocket. The flag shall be printed on separate material applied to the sail. The use of permanent ink pens or similar to make a national flag is forbidden. The national flag shall correspond to the national letters.

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 9kg (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 another 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

Advertising, including competitor advertising, is permitted in accordance with World Sailing Regulation 20 - Advertising code; except that the sail window shall be kept free of advertising or other graphic material.

[Note: For information about World Sailing Regulation 20, see: <http://www.sailing.org/documents/regulations/regulations.php>]

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. Vertical cuts are allowed in the material to allow the material to conform to the shape 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 capsizes. 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 may 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.
- (k) Padding of uniform thickness may be used in the gap between the rudder blade and rudder head. This padding must cover completely the part of the rudder blade that comes in contact with the rudder head. The thickness of the rudder blade plus the padding must not exceed 20.3mm.

16. TILLER

- (a) The tiller and tiller extension are not restricted in any way except that the tiller:
 - i. shall be capable of being removed from the rudder head.
 - ii. shall be fitted with a cleat, hook, pin or eye to secure the downhaul.
 - iii. 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 and may include one cleat; one ring, thimble, or shackle; or both.

- (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

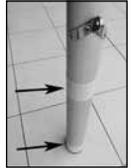
- (a) A metal sleeve supplied by the builder of maximum length 900 mm may be fixed inside the boom. The sleeve shall not extend aft of the point 1220 mm from the front end of the boom (including plug).
- (b) The stainless steel mainsheet eye strap between the two blocks on the boom may be replaced with 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.



- (c) Traveller and Boom mounted mainsheet blocks may be replaced with the "Builder Supplied" blocks shown in the photo.

19. MAST

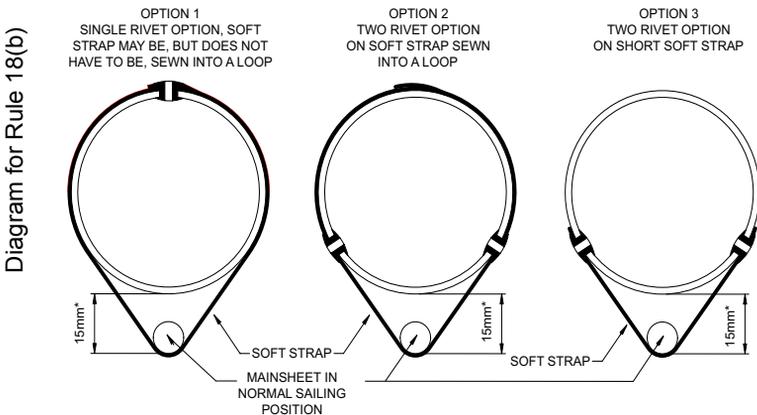
- (a) To prevent abrasion of the mast step, tubes or collars of uniform thickness not exceeding 1 mm in total may be placed around the entire circumference of the lower mast or the mast step cavity. A tube or collar shall not extend more than 10 mm above deck level.



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 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

CROSS SECTIONS THROUGH BOOMS AND SOFT STRAPS SHOWING THE ONLY LEGAL FIXING OPTIONS



NOTES:
 1. 15mm DIMENSION MARKED * IS NOMINAL
 2. HOLES FOR OPTIONS 2 AND 3 ARE POSITIONED TO FIT THE ORIGINAL STAINLESS STEEL EYE STRAP
 3. NO BOOM SHALL BE DRILLED WITH THREE HOLES AT THE BOOM STRAP POSITION

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, ELECTRONIC EQUIPMENT AND TIMING DEVICES

(a) One compass mounted on any part of the deck or the cockpit is permitted if the hull cavity is not pierced by anything other than the fasteners. Compasses may not be fitted to inspection ports. An additional wrist mounted compass is permitted. Electronic, self-contained, digital compasses using only magnetic input are permitted.

(b) Timing devices are permitted.

(c) A timing device and electronic compass may be integrated in the same device.

(d) A compass or timing device must not be capable of displaying, delivering, transmitting, receiving, calculating, correlating or storing information about wind speed, wind direction, boat speed or boat position.

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

23. WIND INDICATORS

(a) Wind indicators may be attached as desired provided the sail is not cut and the buoyancy qualities of the hull and mast are not impaired.

(b) Ribbons, wool or similar wind indicators may be attached to the sail.

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 includes the replacement of fasteners (screws, bolts, nuts, washers and rivets) provided the replacement does not alter the function of the fitting. The tolerances of the Measurement Diagrams shall not be used to alter the position of fittings. In addition the reversing of spars is permitted

if the fittings are replaced in accordance with the Measurement Diagrams. Any holes in the top section of the mast shall be 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.

28. BOAT OR BODY MOUNTED CAMERA

One camera may be attached to the sailor or may be mounted on the boat if the hull cavity is not pierced by anything other than the fasteners.

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.

29. LASER RADIAL

(a) The Laser Radial sail and bottom mast as supplied by an approved 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 29 (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.

(For additional guidance, see the Instructions for Applying Sail Numbers on p. 45 along with accompanying diagrams on pp. 46 - 49).

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.

30. LASER 4.7

(a) The Laser 4.7 sail and bottom mast as supplied by an approved 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 30 (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 digit 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.

(For additional guidance, see the Instructions for Applying Sail Numbers on p. 45 along with accompanying diagrams on pp. 46 - 49).

4(f) National letters, if required, shall conform to the same type, size, spacing and requirements as Laser 4.7 numbers (refer rule 29 (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

31. 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 casting a vote in response to a ballot published by the International Office of the Class. Only those votes submitted within one month from the date of publication of the rule change ballot shall be valid, and
- (d)** World Sailing.

Class Rule Interpretations

1. Approved compasses that meet the requirements of Rule 22. Compass, Electronic Equipment and Timing Devices. A list of approved compasses can be found on the ILCA website - please go to the "Interpretations" tab under "Laser Class Rules".
2. Repairs and Maintenance: Sailors may apply anti-abrasion material at the traveller fairleads to prevent wear of the deck as a form of preventative maintenance under rule 26(a).
3. Hiking Strap: A sheaveless block, such as the "shock block" or equivalent, will be considered a ring for the purpose of rule 17(c).



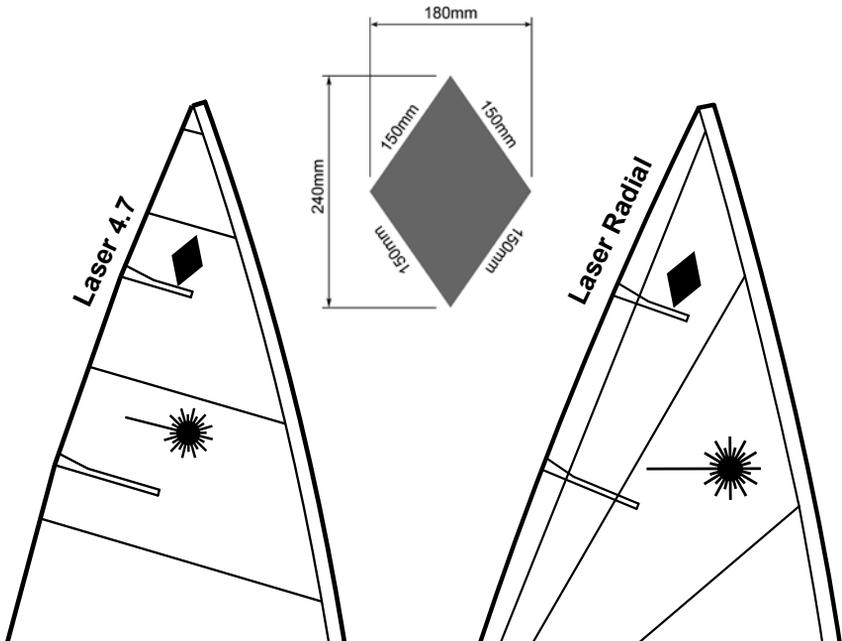
Instructions for Applying Red Rhombus For Women's Events

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

- 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.

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

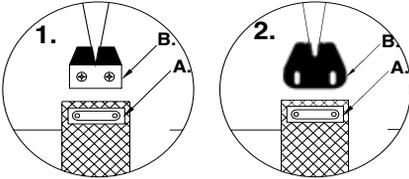
The rhombus may be retained for racing in other events.



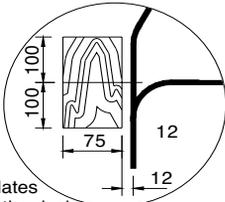
Measurement Diagrams (pages 37 to 43 part of class rules)

All dimensions shown in millimetres

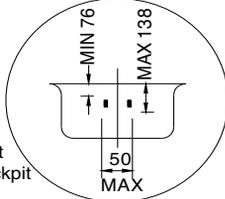
Measurements are shown only as a guide to replacement in the event of failure.



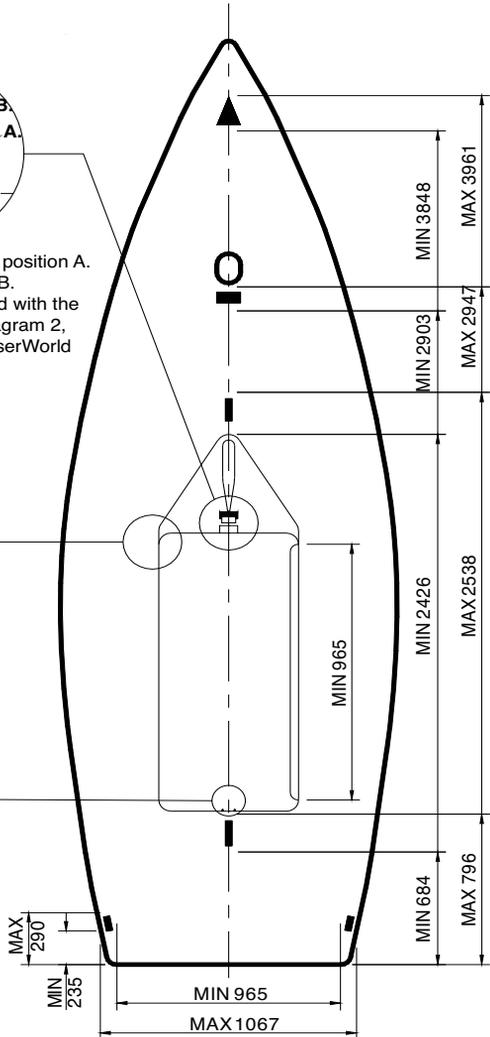
Mainsheet block shall be attached to eyestay in position A. Centreboard Brake shall be attached in position B. Centreboard Brake in diagram 1 may be replaced with the builder supplied Centreboard Brake shown in diagram 2, available mid/late 2009 (see December 2008 LaserWorld or www.laserinternational.org)



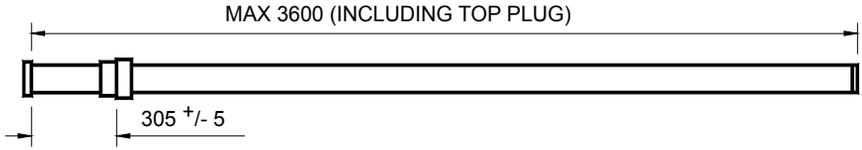
Wooden backing plates are under the deck for the fitting of cam or clam cleats



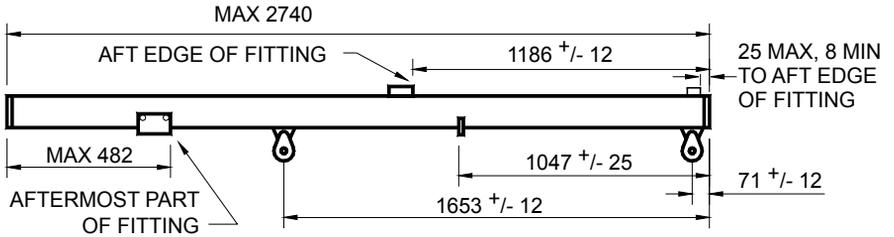
Eyes at aft end of cockpit



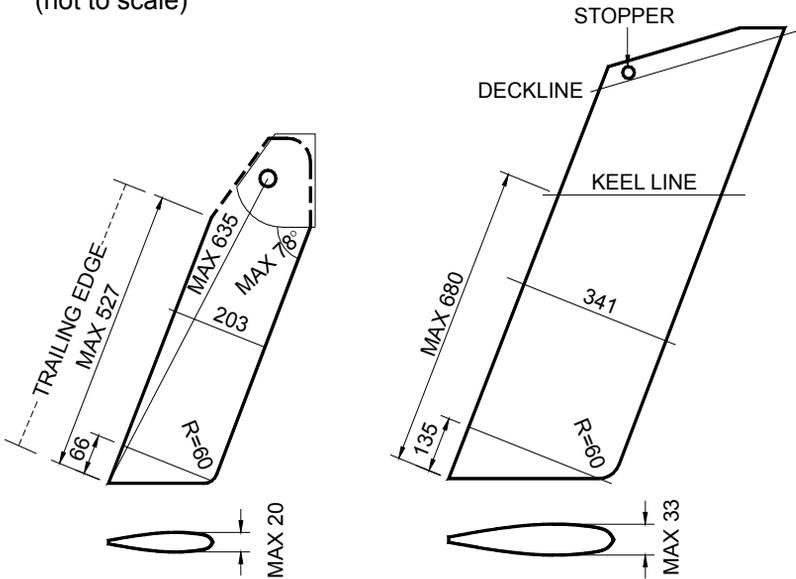
LASER, LASER RADIAL & LASER 4.7 MAST TOP SECTION



LASER, LASER RADIAL & LASER 4.7 BOOM

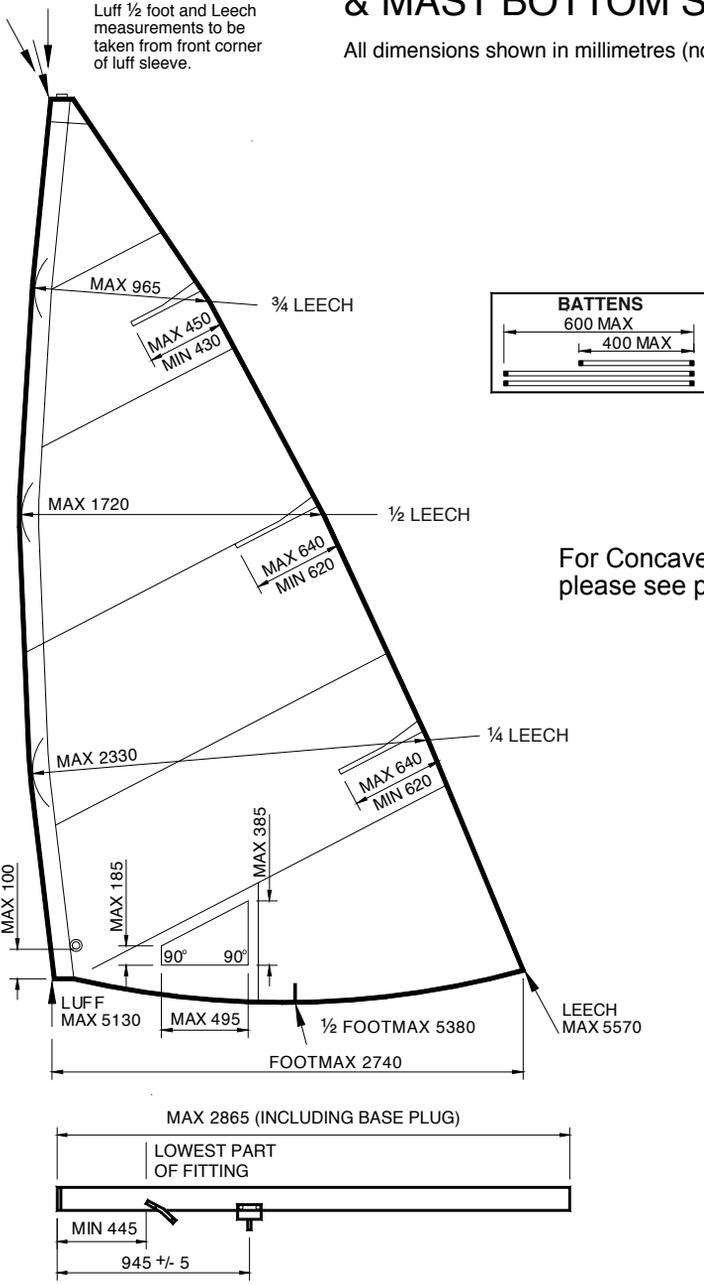


All dimensions shown in millimetres (not to scale)



LASER STANDARD MKI SAIL & MAST BOTTOM SECTION

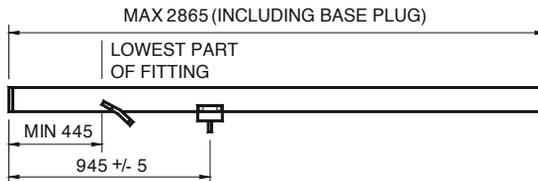
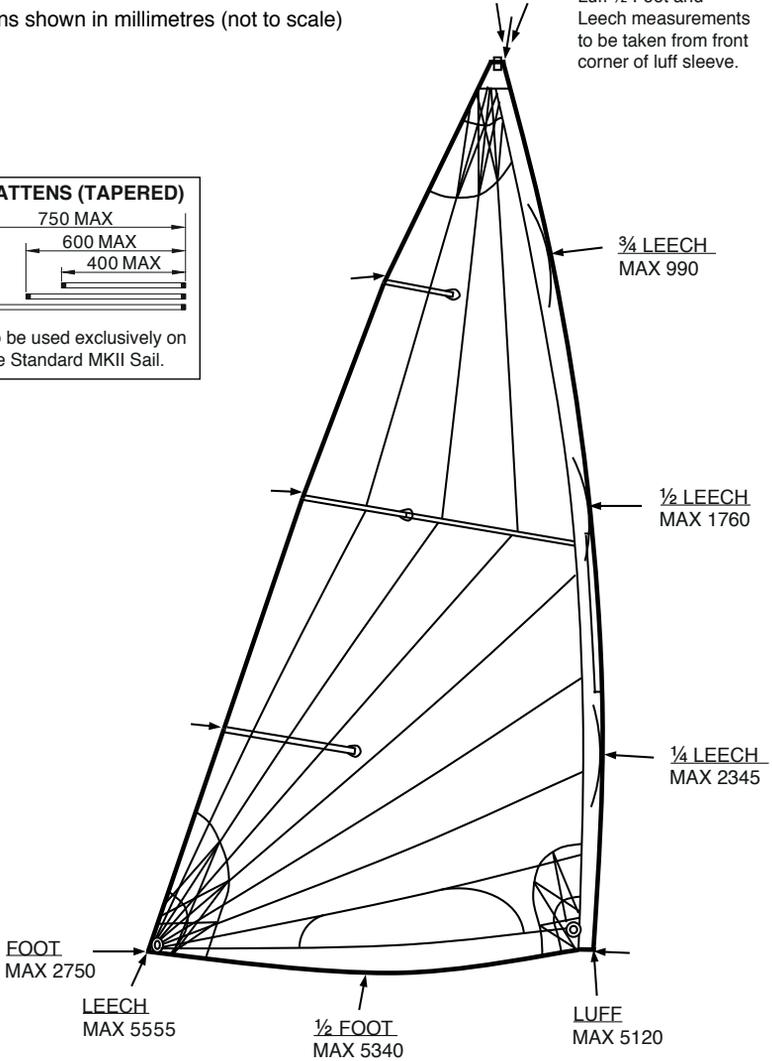
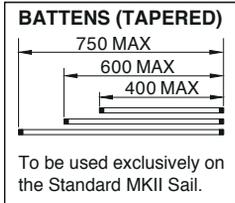
All dimensions shown in millimetres (not to scale)



LASER STANDARD MKII SAIL & MAST BOTTOM SECTION

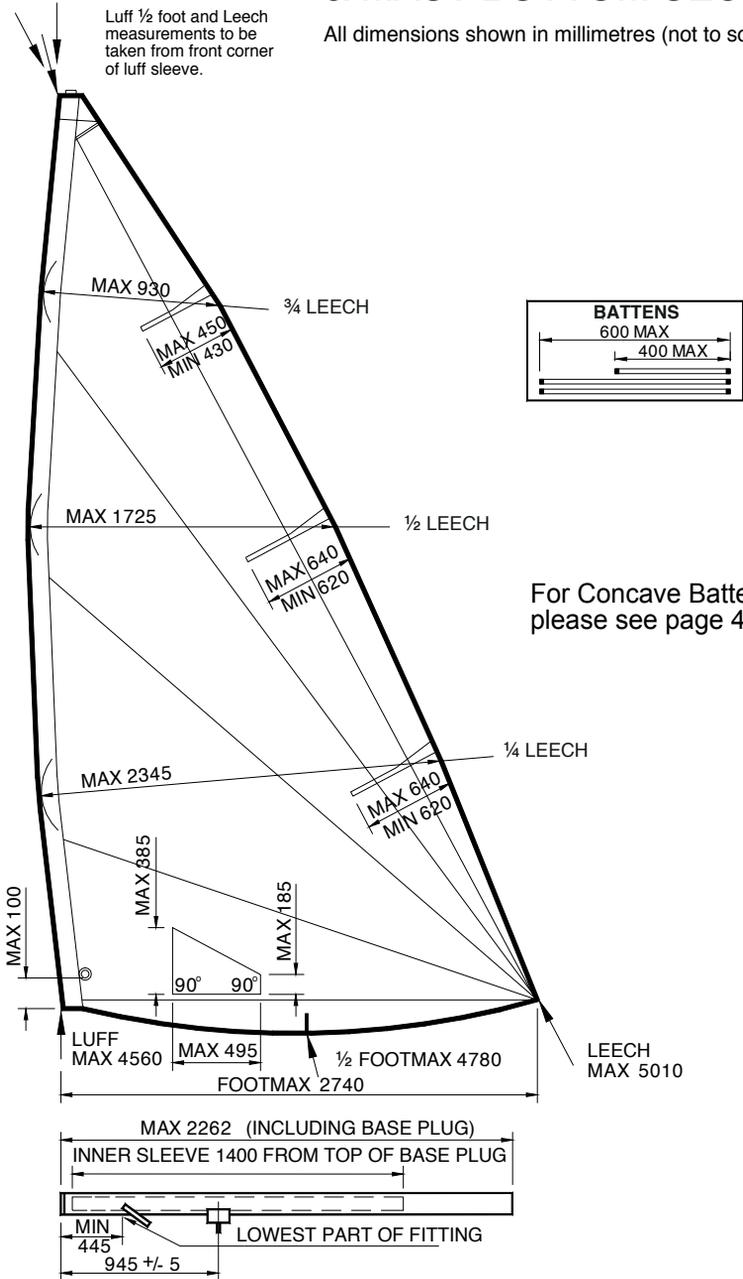
All dimensions shown in millimetres (not to scale)

Luff ½ Foot and
Leech measurements
to be taken from front
corner of luff sleeve.



LASER RADIAL SAIL & MAST BOTTOM SECTION

All dimensions shown in millimetres (not to scale)

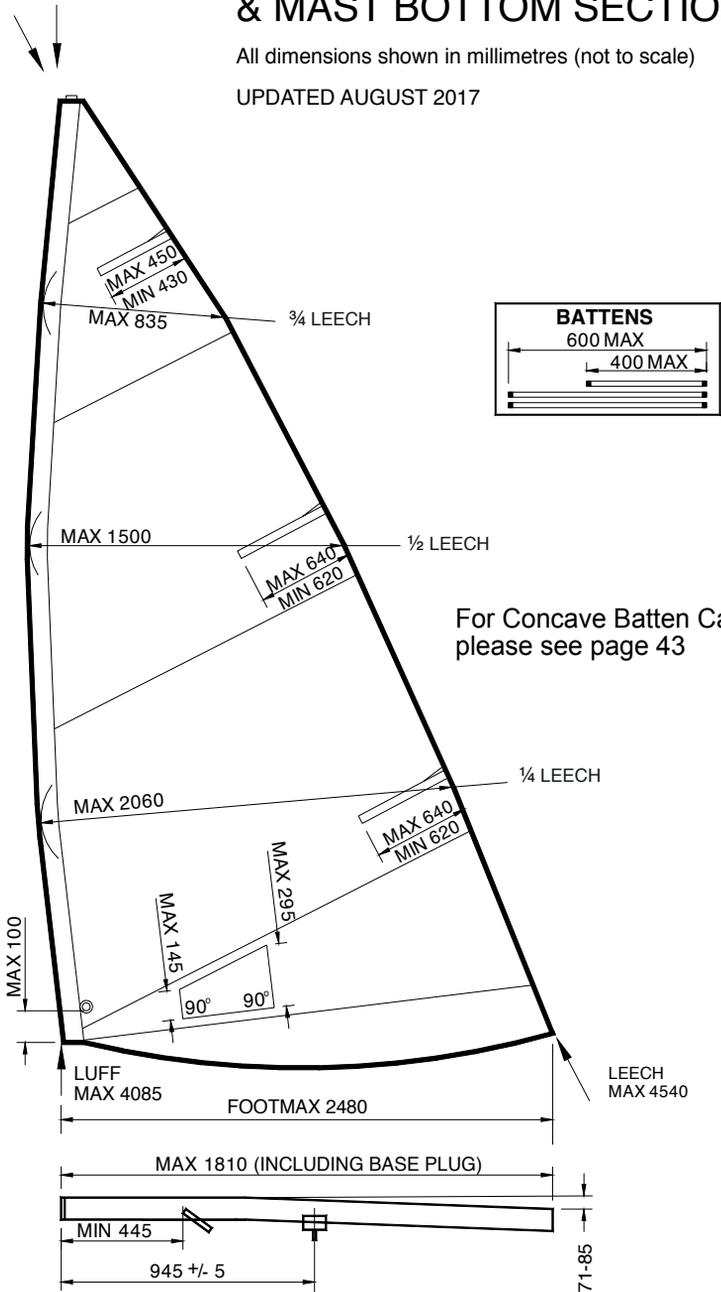


LASER 4.7 SAIL & MAST BOTTOM SECTION

All dimensions shown in millimetres (not to scale)

UPDATED AUGUST 2017

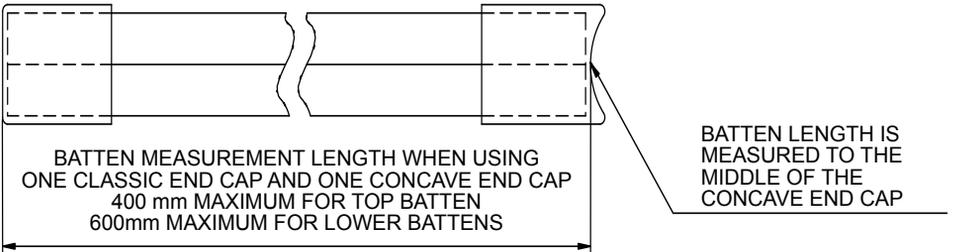
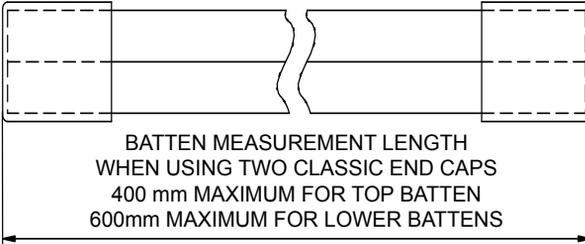
Luff and Leech measurements to be taken from front corner of luff sleeve.



Concave Batten Caps

**For Laser 4.7, Radial and Standard MKI (Cross Cut) Sails
Not applicable for Standard MKII (Bi-Radial Cut) Sails**

The diagrams below illustrate the methods to be used for the measurement of battens using both classic and concave end caps. Please see pages 39-42 for full sail and bottom section diagrams.



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 forth 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 boat 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 the boat subject to protest in accordance with paragraph 2.

2. (a) Hull

The part of the hull of the boat 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 the protested boat shall be disqualified if the difference between the mean value so determined and the measurement on the boat 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

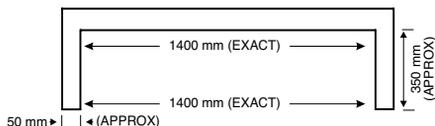
(b) Equipment

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 World Sailing.

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
 Arithmetic mean = 474/5 = 94.8
 Measurement on protested boat = 96
 Difference = 1.2

Diagram 1

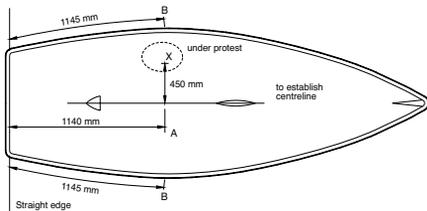
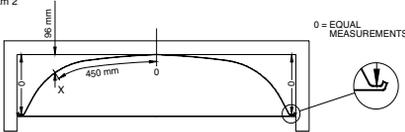


Diagram 2



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

Measurement of Rocker

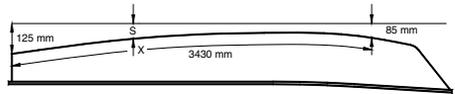
Turn boat upside down. Measure out a distance of 3430 mm along the keel line of the boat.

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 the 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 the 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, Oceania and the Asian 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 Womens' 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 5 categories: 75 and Over (aged 75+), Great Grand Masters (aged 65-74), Grand Masters (aged 55-64), Masters (aged 45-54) and Apprentices (aged 35-44) in which case honour awards and cubes may be awarded for each category. The minimum number of entries in each age category (except Apprentices) at a Masters championship shall be 5. If there are fewer than the minimum number then those Masters shall be scored and eligible to win awards in the next lower age category. 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.

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")

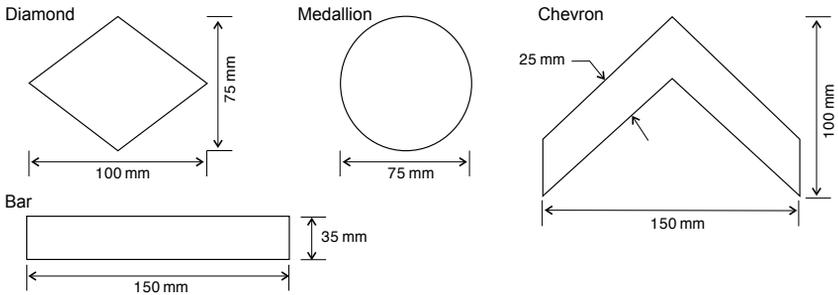
- Winner
Cube inscribed with 3 Medallions
Series 2nd & 3rd place finishers
Cube inscribed with 2 Medallions
Series 4th & 5th place finishers
Cube inscribed with 1 Medallion

District Events ("Diamond Events")

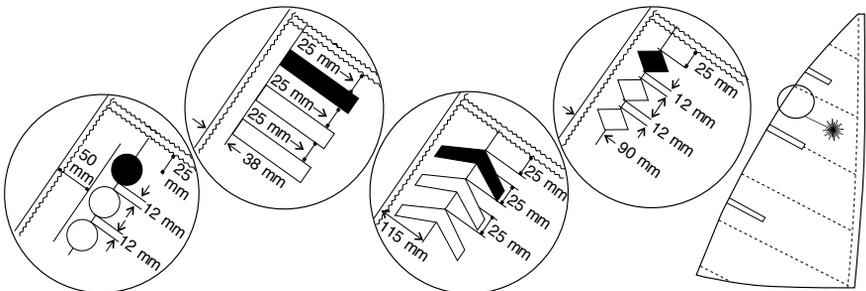
- Winner
Cube inscribed with 3 Diamonds
Series 2nd & 3rd place finishers
Cube inscribed with 2 Diamonds
Series 4th & 5th place finishers
Cube inscribed with 1 Diamond

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.

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 31 (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 website

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.

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.

How to change the hiking strap

The hiking strap connection to the front end of the cockpit is one of the most critical screwed joints in the boat. After all there is nothing worse than jumping out onto the new tack, in the heat of a race, and ending up head first in the drink!

So when changing a hiking strap here are some tips on how to avoid potential failures through stripped threads, broken screws or leaks:-

1. Do not use a power drill or power screwdriver – it is too easy to strip threads or misalign the screws.
2. Use a normal hand screwdriver.
3. When undoing the screws walk them out a turn or two at a time, first one, then the other.
4. When replacing the screws seal the threads with a silicone or polyurethane sealer and walk them in, a turn at a time, first one then the other.
5. When finally seating the screws be careful not to over torque. It is important to firmly torque with a hand screwdriver but that is sufficient.



When chartering a boat at a regatta please refer to the charter boat operator's policy on changing hiking straps.

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

PLEASE NOTE THE FOLLOWING DIAGRAMS ARE FOR INFORMATION AND ARE NOT PART OF THE CLASS RULES

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

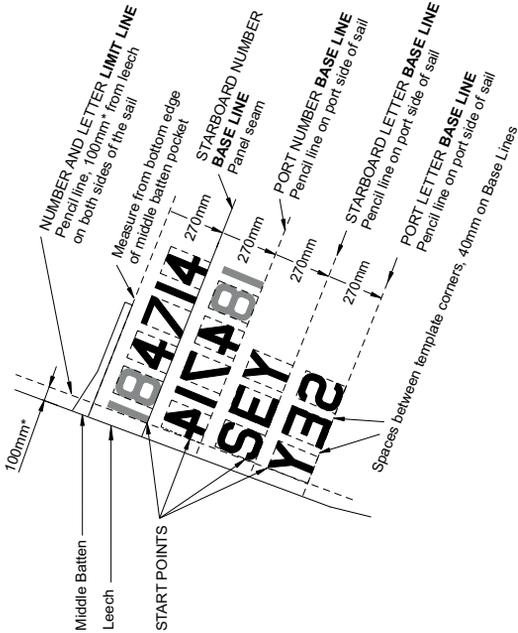
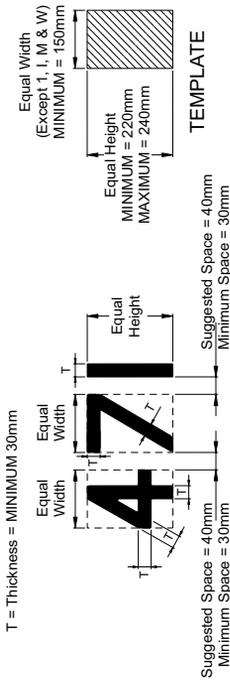
1. Spread the sail out flat on the working surface so that the starboard side of the sail is facing up. The leech (back edge of the sail) will be on the left hand side as shown in the positioning diagrams.
2. **Make sure you are using the correct diagram for the design of sail you are applying the numbers to.** Draw the **Base Line** and **Limit Line** for the starboard numbers (and letters) 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

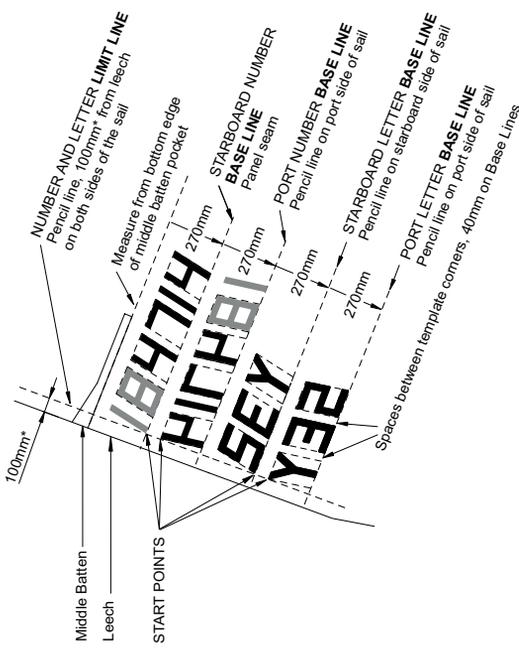
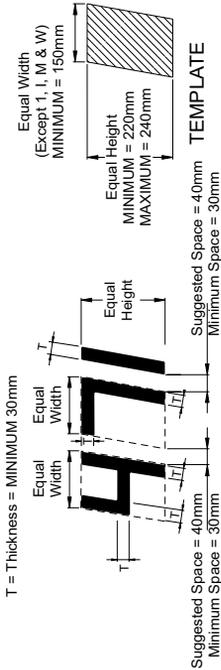
1. Spread the sail out flat on the working surface so that the port side of the sail is facing up. The leech (back edge of the sail) will be on the right hand side. Draw the **Base Line** for the port numbers (and letters).
2. Start with the letter or number closest to the leech making sure that no part of the number or letter crosses the 100mm **Limit Line** towards the leech. Follow the same method as for the starboard side of the sail, working along the **Base Line** away from the leech towards the luff.

LASER 4.7 SAIL NUMBER & LETTER SIZES AND POSITIONING

UPRIGHT NUMBERS AND LETTERS



ANGLED NUMBERS AND LETTERS



1. MINIMUM 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 SAIL NUMBER TO BE ONE DARK, DISTINCTIVE COLOUR OR BLACK. PRECEDING DIGITS TO BE A DIFFERENT, CONTRASTING, DISTINCTIVE COLOUR, PREFERABLY RED. ALL NATIONAL LETTERS TO BE ONE COLOUR. THEY MAY BE ONE OF THE COLOURS OF THE SAIL NUMBER DIGITS OR ANOTHER DISTINCTIVE COLOUR.

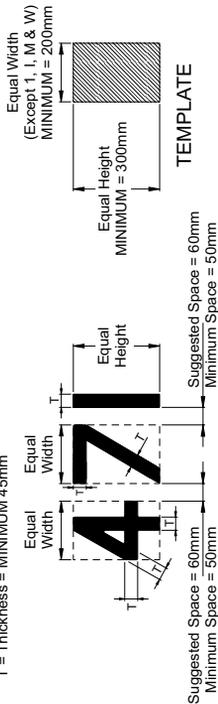
* CLOSEST POINT OF LETTER OR NUMBER SHOULD BE 100mm FROM LEECH, WITH TOLERANCE +/- 12 mm.

PLEASE NOTE DIAGRAMS ARE NOT PART OF THE CLASS RULES

RADIAL SAIL NUMBER & LETTER SIZES AND POSITIONING

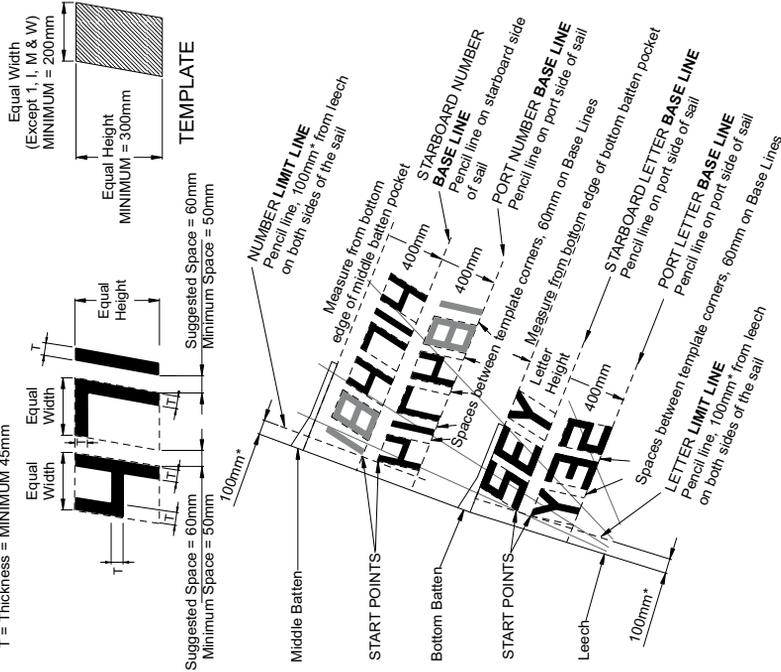
UPRIGHT NUMBERS AND LETTERS

T = Thickness = MINIMUM 45mm



ANGLED NUMBERS AND LETTERS

T = Thickness = MINIMUM 45mm



1. MINIMUM 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 NATIONAL LETTERS TO BE ONE COLOUR. THEY MAY BE ONE OF THE COLOURS OF THE SAIL NUMBER DIGITS OR ANOTHER DISTINCTIVE COLOUR.

* CLOSEST POINT OF LETTER OR NUMBER SHOULD BE 100mm FROM LEECH, WITH TOLERANCE +/- 12 mm.

PLEASE NOTE DIAGRAMS ARE NOT PART OF THE CLASS RULES

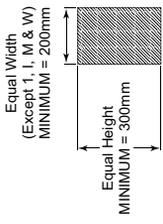
STANDARD MKII (BI-RADIAL CUT) SAIL NUMBER & LETTER SIZES AND POSITIONING

November 2017 Edition



UPRIGHT NUMBERS AND LETTERS

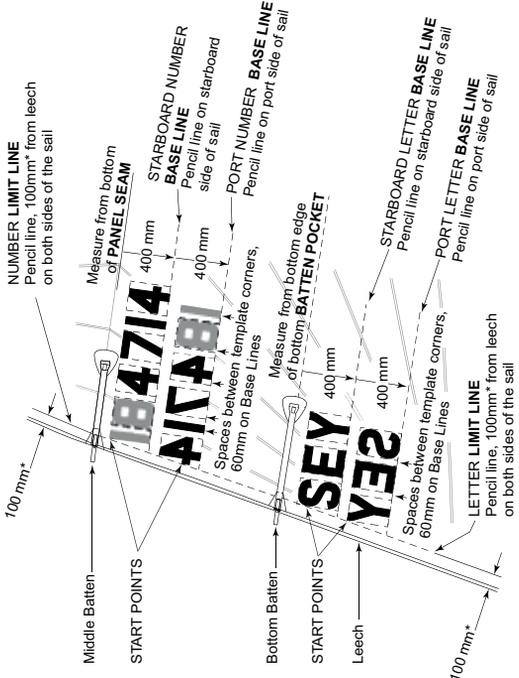
T = Thickness = MINIMUM 45mm



Suggested Space = 60mm
Minimum Space = 50mm

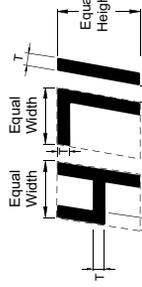
TEMPLATE

NUMBER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail



ANGLED NUMBERS AND LETTERS

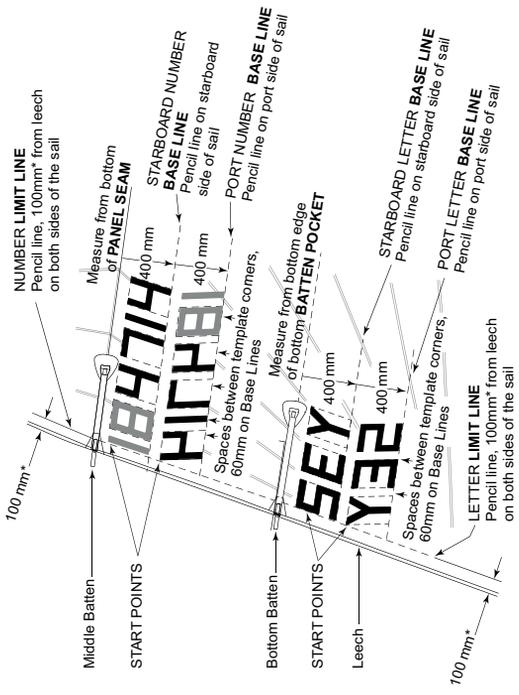
T = Thickness = MINIMUM 45mm



Suggested Space = 60mm
Minimum Space = 50mm

TEMPLATE

NUMBER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail



1. MINIMUM SPACE BETWEEN NUMBERS AND LETTERS IN THE CLASS RULES IS 60mm. 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 NATIONAL LETTERS TO BE ONE COLOUR. THEY MAY BE ONE OF THE COLOURS OF THE SAIL NUMBER DIGITS OR ANOTHER DISTINCTIVE COLOUR.
- * CLOSEST POINT OF LETTER OR NUMBER SHOULD BE 100mm FROM LEECH, WITH TOLERANCE +/- 12 mm.

PLEASE NOTE DIAGRAMS ARE NOT PART OF THE CLASS RULES

November 2017 Edition

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STANDARD MKI (CROSS-CUT) NUMBER & LETTER SIZES AND POSITIONING

UPRIGHT NUMBERS AND LETTERS

T = Thickness = MINIMUM 45mm

Equal Width
(Except 1, I, M & W)
MINIMUM = 200mm

Equal Height
MINIMUM = 300mm

TEMPLATE

Suggested Space = 60mm
Minimum Space = 50mm

100mm*

Middle Batten

START POINTS

Bottom Batten

Leech

NUMBER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail

STARBOARD NUMBER
BASE LINE
Pencil line on starboard side
of sail

PORT NUMBER BASE LINE
Pencil line on port side of sail

STARBOARD LETTER BASE LINE
Top of panel seam

PORT LETTER BASE LINE
Pencil line on port side of sail

Measure from
PANEL SEAM
400mm

Spaces between template corners,
60mm on Base Lines

LETTER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail

ANGLED NUMBERS AND LETTERS

T = Thickness = MINIMUM 45mm

Equal Width
(Except 1, I, M & W)
MINIMUM = 200mm

Equal Height
MINIMUM = 300mm

TEMPLATE

Suggested Space = 60mm
Minimum Space = 50mm

100mm*

Middle Batten

START POINTS

Bottom Batten

Leech

NUMBER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail

STARBOARD NUMBER
BASE LINE
Pencil line on starboard side
of sail

PORT NUMBER BASE LINE
Pencil line on port side of sail

STARBOARD LETTER BASE LINE
Top of panel seam

PORT LETTER BASE LINE
Pencil line on port side of sail

Measure from
PANEL SEAM
400mm

Spaces between template corners,
60mm on Base Lines

LETTER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail

100mm*

Middle Batten

START POINTS

Bottom Batten

Leech

NUMBER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail

STARBOARD NUMBER
BASE LINE
Pencil line on starboard side
of sail

PORT NUMBER BASE LINE
Pencil line on port side of sail

STARBOARD LETTER BASE LINE
Top of panel seam

PORT LETTER BASE LINE
Pencil line on port side of sail

Measure from
PANEL SEAM
400mm

Spaces between template corners,
60mm on Base Lines

LETTER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail

100mm*

Middle Batten

START POINTS

Bottom Batten

Leech

NUMBER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail

STARBOARD NUMBER
BASE LINE
Pencil line on starboard side
of sail

PORT NUMBER BASE LINE
Pencil line on port side of sail

STARBOARD LETTER BASE LINE
Top of panel seam

PORT LETTER BASE LINE
Pencil line on port side of sail

Measure from
PANEL SEAM
400mm

Spaces between template corners,
60mm on Base Lines

LETTER LIMIT LINE
Pencil line, 100mm* from leech
on both sides of the sail

1. MINIMUM 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 NATIONAL LETTERS TO BE ONE COLOUR. THEY MAY BE ONE OF THE COLOURS OF THE SAIL NUMBER DIGITS OR ANOTHER DISTINCTIVE COLOUR.

* CLOSEST POINT OF LETTER OR NUMBER SHOULD BE 100mm FROM LEECH, WITH TOLERANCE +/- 12 mm.

PLEASE NOTE DIAGRAMS ARE NOT PART OF THE CLASS RULES

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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

OLYMPIC GAMES

2016 Rio, Brazil
Laser Standard
 Countries 46

1st	Tom Burton	AUS
2nd	Tonci Stipanovich	CRO
3rd	Sam Meech	NZL
4th	Robert Scheidt	BRA
5th	Jean Baptiste Bernaz	FRA

Laser Radial
 Countries 37

1st	Marit Bouwmeester	NED
2nd	Annalise Murphy	IRL
3rd	Anne-Marie Rindom	DEN
4th	Evi Van Acker	BEL
5th	Tuula Tenkanen	FIN

2012 London, UK
Laser Standard
 Countries 49

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

Laser Radial
 Countries 41

1st	Lija Xu	CHN
2nd	Marit 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	Lija Xu	CHN
4th	Sarah Blanck	AUS
5th	Sarah Steyaert	FRA

2004 Athens, GRE
Laser Standard
 Countries 42

1st	Robert Scheidt	BRA
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

2018 Aarhus, DEN
Open: Laser Standard
 Entries 165 Countries 66

1st	Pavlos Kontides	CYP
2nd	Matthew Wearm	AUS
3rd	Philipp Buhl	GER
4th	Sam Meech	NZL
5th	Elliott Hanson	GBR

Women: Laser Radial
 Entries 119 Countries 53

1st	Emma Plasschaert	BEL
2nd	Marit Bouwmeester	NED
3rd	Anne-Marie Rindom	DEN
4th	Monika Mikkola	FIN
5th	Paige Railey	USA

2018 Kiel, GER
Men: Laser Radial
 Entries 94 Countries 26

1st	Zac Littlewood	AUS
2nd	Aleksander Anian	POL
3rd	Caelin Winchcombe	AUS
4th	Uffe Tomsgaard	NOR
5th	Marcin Rudawski	POL

Youth Men: Laser Radial
 Entries 373 Countries 45

1st	Guido Gallinaro	ITA
2nd	Josh Armit	NZL
3rd	Francesco Viel	ITA
4th	Uffe Tomsgaard	NOR
5th	Rodolfo Silvestrini	ITA

Youth Women: Laser Radial
 Entries 101 Countries 29

1st	Matilda Talluri	ITA
2nd	Matilda Nicholls	GBR
3rd	Ana Moncada Sánchez	ESP
4th	Julia Büsseberg	GER
5th	Lillian Myers	USA

2018 Gdynia, POL
U21: Laser Standard
 Entries 140 Countries 41

1st	Philipp Loewe	GER
2nd	Max Wilken	GER
3rd	Liam Glynn	IRL
4th	Jonatan Vadnai	JUM
5th	Henry Marshall	USA

U21: Laser Radial Women
 Entries 73 Countries 30

1st	Anna Munch	DEN
2nd	Carolina Albano	ITA
3rd	Elyse Ainsworth	AUS
4th	Dolores Moreira	URU
5th	Zoe Thompson	AUS

U18 Men: Laser 4.7
 Entries 280 Countries 42

1st	Daniel Hung	SGP
2nd	Michael Compton	AUS
3rd	Stefano Viale	PER
4th	Wonn Yee Lee	SGP
5th	Theo Peyre	FRA

U18 Women: Laser 4.7
 Entries 158 Countries 35

1st	Chiara Benini Floriani	ITA
2nd	Simone Chen	SGP
3rd	Giorgia Cingolani	ITA
4th	Eline Verstraelen	BEL
5th	Marissa Ijben	NED

2017 Split, CRO
Open: Laser Standard
 Entries 148 Countries 52

1st	Pavlos Kontides	CYP
2nd	Tom Burton	AUS
3rd	Matthew Wearm	AUS
4th	Philipp Buhl	GER
5th	Jesper Stalheim	SWE

2017 Medemblik, NED
Women: Laser Radial
 Entries 99 Countries 40

1st	Marit Bouwmeester	NED
2nd	Evi Van Acker	BEL
3rd	Manami Doi	JPN
4th	Mathilde De Kerangat	FRA
5th	Brenda Bowskill	CAN

Men: Laser Radial
 Entries 65 Countries 28

1st	Marcin Rudawski	POL
2nd	Eliot Mercur	SUI
3rd	Zac Littlewood	AUS
4th	Maxime Mazard	FRA
5th	Daniil Krutikhin	RUS

Youth Men: Laser Radial
 Entries 281 Countries 44

1st	Dimitris Papadimitriou	GRE
2nd	Matias Dietrich	ARG
3rd	Nicholas Bezy	HKG
4th	Josh Armit	NZL
5th	Alexandre Boite	FRA

Youth Women: Laser Radial
 Entries 110 Countries 32

1st	Hannah Anderssohn	GER
2nd	Dolores Moreira Fraschini	URU
3rd	Charlotte Rose	USA
4th	Emma Savelon	NED
5th	Laura Schewe	GER

2017 Nieuwpoort, BEL
U21: Laser Standard
 Entries 125 Countries 41

1st	Joel Rodriguez Perez	ESP
2nd	Jonatan Vadnai	HUN
3rd	Daniel Whiteley	GBR
4th	Jack Cookson	GBR
5th	Sam Whalley	GBR

U21: Laser Radial Women
 Entries 66 Countries 27

1st	Mária Erdi	HUN
2nd	Hannah Anderssohn	GER
3rd	Magdalena Kwasna	POL
4th	Louise Cervera	FRA
5th	Dolores Moreira Fraschini	URU

U18 Men: Laser 4.7
 Entries 235 Countries 43

1st	Ylikan Timursah	TUR
2nd	Sofiane Karim	FRA
3rd	Cesare Barabino	ITA
4th	Pere Ponseti Mesquida	ESP
5th	Finn O'Dea	AUS

U18 Women: Laser 4.7
 Entries 115 Countries 30

1st	Federica Cattarozzi	ITA
2nd	Giorgia Cingolani	ITA
3rd	Ana Moncada Sanchez	ESP
4th	Julia Büsseberg	GER
5th	Shai Kakon	ISR

2016 Nuevo Vallarta, MEX
Open: Laser Standard
 Entries 113 Countries 44

1st	Nick Thompson	GBR
2nd	Jean-Baptiste Bernaz	FRA
3rd	Rüger Van Schaarsburg	NED
4th	Matthew Wearm	AUS
5th	Marco Gallo	ITA

Women: Laser Radial
 Entries 72 Countries 32

1st	Alison Young	GBR
2nd	Paige Railey	USA
3rd	Anne-Marie Rindom	DEN
4th	Marit Bouwmeester	NED
5th	Gintare Volungeviciute	LTU

2016 Dun Laoghaire, IRL
Men: Laser Radial
 Entries 42 Countries 18

1st	Marcin Rudawski	POL
2nd	Nik Pletikos	SLO
3rd	Martin Manzoli Lowy	BRA
4th	Darragh O'Sullivan	IRL
5th	Jack Marshall	USA

Youth Men: Laser Radial
 Entries 231 Countries 42

1st	Henry Marshall	USA
2nd	Ewan McMahon	IRL
3rd	Bernie Chin	SIN
4th	Daniel Whiteley	GBR
5th	Finnian Alexander	AUS

Youth Women: Laser Radial
 Entries 76 Countries 25

1st	Zoe Thomson	AUS
2nd	Carole Rosmo	NOR
3rd	Louise Cervera	FRA
4th	Sophia Reineke	USA

5th Carolina Albano ITA

2016 Kiel, GER
U21: Laser Standard
 Entries 147 Countries 38

1st	Jonatan Vadnai	HUN
2nd	Joel Rodriguez	ESP
3rd	Nik Aaron William	GER
4th	Saago Sampaio	POR
5th	Nicolò Villa	ITA

U21: Laser Radial Women
 Entries 59 Countries 39

1st	Monika Mikkola	FIN
2nd	Vasiliea Karachaliou	GRE
3rd	Maité Carlier	BEL
4th	Valentina Balbi	ITA
5th	Maud Jayet	SUI

U18 Men: Laser 4.7
 Entries 262 Countries 38

1st	Dimitrios Papadimitriou	GRE
2nd	Guido Gallinaro	ITA
3rd	Pere Ponseti	ESP
4th	Uffe Tomsgaard	NOR
5th	Andrey De Oliveira Godoy	BRA

U18 Women: Laser 4.7
 Entries 127 Countries 32

1st	Emma Savelon	NED
2nd	Monika Kistukhina	RUS
3rd	Eisa Navoni	ITA
4th	Federica Cattarozzi	ITA
5th	Juli Baruch	ISR

2015 Kingston, CAN
Open: Laser Standard
 Entries 158 Countries 62

1st	Nick Thompson	GBR
2nd	Philipp Buhl	GER
3rd	Tom Burton	AUS
4th	Juan Ignacio Maegli	GUA
5th	Matthew Wearm	AUS

Youth Men: Laser Radial
 Entries 142 Countries 34

1st	Conor Nicholas	AUS
2nd	Gianmarco Planchestainer	ITA
3rd	Nic Baird	USA
4th	Paolo Giargia	ITA
5th	Umberto Jose Varbaro	ITA

Youth Women: Laser Radial
 Entries 53 Countries 20

1st	Maria Erdi	HUN
2nd	Dolores Moreira	URU
3rd	Magdalena Kwasna	POL
4th	Francesca Bergamo	ITA
5th	Carolina Albano	ITA

2015 Al Mussanah City, OMA
Women: Laser Radial
 Entries 100 Countries 49

1st	Ann-Marie Rindom	DEN
2nd	Marit Bouwmeester	NED
3rd	Evi Van Acker	BEL
4th	Tuula Tenkanen	FIN
5th	Josefin Olsson	SWE

2015 Aarhus, DEN
Men: Laser Radial
 Entries 75 Countries 21

1st	Marcin Rudawski	POL
2nd	Matthias Van De Loock	BEL
3rd	Zan Luka Zelko	SLO
4th	Patrick Dopping	DEN
5th	Mon Carrellas Salas	ESP

2015 Medemblik, NED
U21: Laser Standard
 Entries 155 Countries 42

1st	Joel Rodriguez	ESP
2nd	Michael Beckett	GBR
3rd	Benjamin Vadnai	HUN
4th	Finn Lynch	IRL
5th	Jonatan Vadnai	HUN

U21: Laser Radial Women
 Entries 74 Countries 33

1st	Maxime Jonker	NED
2nd	Lise Fien Host	NOR
3rd	Monika Mikkola	FIN
4th	Dewi Couwert	NED
5th	Martina Reino Cacho	ESP

U18 Men: Laser 4.7
 Entries 257 Countries 36

1st	A. Bethencourt Fuentes	ESP
2nd	Rafael De La Hoz Tuells	ESP

3rd	Guido Gallinaro	ITA
4th	Toggar Elmas	TUR
5th	Alberto Tezza	ITA

U18 Women: Laser 4.7

Entries 127	Countries 29	
1st	Kateryna Gumenko	UKR
2nd	Julia Büßelberg	GER
3rd	Isaura Maenhaut	BEL
4th	Lin Pletikos	SLO
5th	Federica Cattarozzi	ITA

2013 AI Musannah, OMA

Open: Laser Standard

Entries 112	Countries 38	
1st	Robert Scheidt	BRA
2nd	Pavlos Kontides	CYP
3rd	Philipp Buhl	GER
4th	Rutger Schaardenburg	NED
5th	Jesper Staehle	SWE

2013 Rizhao City, CHN

Women: Laser Radial

Entries 76	Countries 31	
1st	Tina Mihelic	CRO
2nd	Tuula Tenkanen	FIN
3rd	Paige Railey	USA
4th	Dongshuang Zhang	CHN
5th	Sarah Gunni	DEN

2013 Dun Laoghaire, IRL

Men: Laser Radial

Entries 95	Countries 25	
1st	Tristan Brown	AUS
2nd	Marcin Rudawski	POL
3rd	Finn Lynch	IRL
4th	Juan Cabrera Gonzales	ESP
5th	Sebastian Schneider	ESP

2013 AI Musannah, OMA

Youth Men: Laser Radial

Entries 51	Countries 22	
1st	Benjamin Vadni	HUN
2nd	Gianmarco Pianchesteiner	ITA
3rd	Sebastian Schneider	SUI
4th	Ryan Lee	USA
5th	Jonatan Vadni	HUN

Youth Women: Laser Radial

Entries 28	Countries 17	
1st	Monika Mikkola	FIN
2nd	Celine Therese Herud	NOR
3rd	Line Flem Host	NOR
4th	Jillian Lee	SIN
5th	Agata Barwinska	POL

2013 Balatonfured, HUN

U21: Laser Standard

Entries 138	Countries 34	
1st	Mitchell Kennedy	AUS
2nd	Hermann Tommasgaard	NOR
3rd	Francesco Marrai	ITA
4th	Lorenzo Chiavarin	GBR
5th	Giovanni Coccoluto	ITA

U21: Laser Radial Women

Entries 96	Countries 32	
1st	Svenja Weger	GER
2nd	Niki Blassar	FIN
3rd	Ciarella Tempesti	ITA
4th	Manami Doi	JPN
5th	Kim Pletikos	SLO

U18 Men: Laser 4.7

Entries 239	Countries 46	
1st	Anil Cetin	TUR
2nd	Jonatan Vadni	HUN
3rd	Conor Nicholas	AUS
4th	Gianmarco Pianchesteiner	ITA
5th	Sergio Silva	PER

U18 Women: Laser 4.7

Entries 130	Countries 33	
1st	Silvia Morales Gonzalez	ESP
2nd	Magdalena Kwaska	POL
3rd	Sofia Cappurucini	ITA
4th	Alba Elejabarita	ESP
5th	Jose Maria Marichal	ESP

2012 Boltenhagen, GER

Open: Laser Standard

Entries 169	Countries 62	
1st	Tom Slingsby	AUS
2nd	Tonci Stipanovic	CRO
3rd	Andrew Maloney	NZL
4th	Juan Maegi	GUA
5th	Tom Burton	AUS

2012 Boltenhagen, GER

Women: Laser Radial

Entries 136	Countries 53	
1st	Gintare Scheidt	LTU
2nd	Lijia Xu	CHN
3rd	Sari Multala	FIN
4th	Allison Young	GBR
5th	Marit Bouwmeester	NED

2012 Buenos Aires, ARG

U21: Laser Standard

Entries 29	Countries 19	
1st	Giovanni Coccoluto	ITA
2nd	Stig Steinfurth	DEN
3rd	Aleksander Arian	POL
4th	Juan Ignacio Biava	ARG
5th	Ignasi Lopez Carcer	ESP

2012 Brisbane, AUS

Men: Laser Radial

Entries 54	Countries 9	
1st	Tristan Brown	AUS
2nd	Matthew Wearn	AUS
3rd	Jeremy O'Connell	AUS
4th	Mahia Pepper	NZL
5th	Daniel Smith	AUS

Youth Men: Laser Radial

Entries 71	Countries 11	
1st	Hermann Tommasgaard	NOR
2nd	Andrew Mckenzie	NZL
3rd	Mitchell Kiss	USA
4th	Maxim Nikolaev	RUS
5th	Juan Carlos Perdomo	PUR

Youth Women: Laser Radial

Entries 35	Countries 10	
1st	Makira Jonker	NED
2nd	Madison Kennedy	AUS
3rd	Georgina Powell	GBR
4th	Milly Bennett	AUS
5th	Anna Philip	AUS

2012 Buenos Aires, ARG

U18 Men: Laser 4.7

Entries 71	Countries 25	
1st	Benjamin Vadni	HUN
2nd	Nahuel Rodriguez Pérez	ESP
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 Tomic	SRB
4th	Liam McCarthy	USA
5th	Francisco Guaragna	ARG

U18 Women: Laser 4.7

Entries 44	Countries 17	
1st	Celine Therese Herud	NOR
2nd	Yolanda Luque Gonzalez	ESP
3rd	Anja Hameltz	CRO
4th	Lijia Silva	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	Kana Hayashi	JPN

2011 Perth, AUS

Open: Laser Standard

Entries 145	Countries 66	
1st	Tom Slingsby	AUS
2nd	Simon Grotelueschen	GER
3rd	Nick Thompson	GBR
4th	Andreas Gertzer	AUT
5th	Paul Goodison	GBR

Women: Laser Radial

Entries 102	Countries 51	
1st	Marit Bouwmeester	NED
2nd	Evi Van Acker	BEL
3rd	Paige Railey	USA
4th	Veronika Fenclova	CZE
5th	Gintare Volungeviciute	LTU

2011 La Rochelle, FRA

U21: Laser Standard

Entries 151	Countries 40	
1st	Sam Meeth	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 27	Countries 42	
1st	Giovanni Coccoluto	ITA
2nd	Elliott Hanson	GBR
3rd	Elliott 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 Czuchowska	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	Keju Okada	JPN
5th	Mehmet Turkeren	TUR

U16 Men: Laser 4.7

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

U18 Women: Laser 4.7

Entries 53	Countries 19	
1st	Cecilia Zorzi	ITA
2nd	Kim Pletikos	SLO
3rd	Line Flem Host	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	Vasiliea Karachiew	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	Thorbjorn Schierup	DEN
2nd	Francesco Marrai	ITA
3rd	Alex Mills-Barton	GBR
4th	Kacper Zieminski	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 Railey	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	Luka 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 Vaillo	ESP

2010 Pattaya, THA

U18 Men: Laser 4.7

Entries 45	Countries 22	
1st	Elienne Le Pan	FRA
2nd	Supakorn Pongwichan	THA
3rd	Jolbert Van Dijk	NED
4th	Luka Malusa	ITA
5th	Juan Carlos Perdomo	PUR

U16 Mixed: Laser 4.7

Entries 31	Countries 14	
1st	Ryan Amlehn	NZL
2nd	Mark Spearman	AUS
3rd	Filippos 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	NZL
3rd	Nick Thompson	GBR
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 Romsy Muhamad	MAS

Youth Men: Laser Radial

Entries 100	Countries 25	
1st	Keerati Bualong	THA
2nd	Aleksander Arian	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	AUS
3rd	Michelle Broekhuizen	NED
4th	Anna Agrafioti	GRE
5th	Joanna Maksymuk	POL

2009 Buzios, BRA

U21: Laser 4.7

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

Youth Women: Laser 4.7

Entries 39	Countries 23	
1st	Urka Kosir	SLO
2nd	Tomoyo Wakabayashi	JPN
3rd	Hitomi Murayama	JPN
4th	Kim Pletikos	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 Blanck	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	Tom Burton	AUS
5th	Sam Meech	NZL

Youth Women: Laser Radial

Entries 38	Countries 14	
1st	Gabrielle King	AUS
2nd	Cushla Hume-Merry	NZL
3rd	Sarah Gunni	DEN
4th	Mathilde de Kerangat	FRA

5th Annalise 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 Vasic	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 Coro 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 Denis Karpach	EST
4th Mate Arapov	CRO
5th Paul Goodison	GBR
Women: Laser Radial	
Entries 107	Countries 48
1st Tatiana Drozdovskaya	BLR
2nd Sari Mutala	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 Krol	NED
4th Jon Emmett	GBR
5th James Burman	AUS
Youth Men: Laser Radial	
Entries 204	Countries 29
1st Thorbjørn Schierup	DEN
2nd Ioannis Mitis	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 Gunn	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 Brian	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 Gustavo Lima	POR
Men: Laser Radial	
Entries 71	Countries 22
1st Fabio Pillar	BRA
2nd Steven Le Fevre	NED
3rd Steven Krol	NED
4th Jon Emmett	GBR
5th Ryan Seaton	IRL
Women: Laser Radial	
Entries 89	Countries 31
1st Lijia Xu	CHN
2nd Petra Niemann	GER
3rd Tania Elias Cailles 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 Victor Serezkhin	RUS
3rd Marko Peresa	CRO
4th Fran Perucic	CRO
5th Giuseppe Linares	ITA
Youth Women: Laser 4.7	
Entries 88	Countries 19
1st Victoria Chan	SIN
2nd Agnieszka Skrzypulec	POL
3rd Julie Chehab	FRA
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 Andrew Perdicaris	BRA
Women: Laser Radial	
Entries 76	Countries 31
1st Paige Ralphy	USA
2nd Sophie de Turckheim	FRA
3rd Anna Tunnicliffe	USA
4th Petra Niemann	GER
5th Krystal Weir	AUS
Youth Men: Laser Radial	
Entries 77	Countries 23
1st Blair McLay	NZL
2nd Frederico Melo	POR
3rd Ivan Taritas	CRO
4th Antonios Tzortzis	GRE
5th James Burman	AUS
Youth Women: Laser Radial	
Entries 26	Countries 13
1st Veronika Haid	AUT
2nd Bruna Cordeiro	BRA
3rd Viviana de Oliveira	BRA
4th Luiza de Sabota	BRA
5th Cecilia de Andrade	BRA

2005 Barrington, USA	
Youth Men: Laser 4.7	
Entries 92	Countries 16
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	
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 Juijens	NED
Youth: Laser Radial	
Entries 108	Countries 18
1st Jean Baptiste Bernaz	FRA
2nd Nathan Outeridge	AUS
3rd Daniel Mihelic	CRO
4th Daniel Jakobsson	BRA
5th Javier Padron	ESP
2004 Riva del Garda, ITA	
Entries 276	Countries 23
Youth Men: Laser 4.7	
1st Justin Onvlee	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 Tia Mihelic	CRO
3rd Cansin Karga	TUR
4th Vanessa le Bouffeiller	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 Bartram	NZL
3rd Karlo Krpeljivic	CRO
4th Max Bulley	FRA
5th Marc Jux	CHI
Women: Laser Radial	
Entries 50	Countries 16
1st Katarzyna Szotyńska	POL
2nd Krystal Weir	AUS
3rd Jeanette Dagson	SWE
4th Corinne Meyer	SUI
5th Gea Juijens	NED
Youth: Laser Radial	
Entries 200	Countries 27
1st Tonci Stipanovic	CRO
2nd Tonko Kuzmanic	CRO
3rd Jonasz Stelmazyk	POL
4th Campbell Davidson	GBR
5th Javier Padron	ESP

2003 Cesme, TUR	
Entries 98	Countries 18
Youth Men: Laser 4.7	
1st Onur Derebası	TUR
2nd Ates Cinar	TUR
3rd Mustafa Cakir	TUR
4th Philip White	GBR
5th Milosz Landowski	POL
Youth Women: Laser 4.7	
1st Ayda Unver	TUR
2nd Anita Di Iasio	ITA
3rd Didem Sarman	TUR
4th Cansin Karga	TUR
5th Istem Oguzbayir	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 Cairns	AUS
2002 Ontario, CAN	
Men: Laser Radial	
Entries 101	Countries 19
1st Karlo Krpeljivic	CRO
2nd Chris Ashley	USA
3rd Tiago Rodrigues	BRA
4th David Wright	CAN
5th Jake Bartram	NZL
Women: Laser Radial	
Entries 38	Countries 10
1st Katarzyna Szotyńska	POL
2nd Miranda Powrie	NZL
3rd Ciara Peelo	IRL
4th Nicky Souter	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 Muiderzand, NED	
Entries 124	Countries 16
Youth Men: Laser 4.7	
1st Tonci Stipanovic	CRO
2nd Daniel Mihelic	CRO
3rd Colin Robaar	NED
4th Stefano Meciani	ITA
5th Dennis Karpak	EST
Youth Women: Laser 4.7	
1st Tugce Subasi	TUR
2nd Celine Olivier	FRA
3rd Manxy Mulder	NED
4th Samantha Chidgey	AUS
5th Linda 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 Blankenbeger	RSA
2001 Vilanova, ESP	
Men: Laser Radial	
Entries 230	Countries 35
1st Michael Bullot	NZL
2nd Andre Streppel	BRA
3rd Aron Lolic	CRO
4th Alp Alpagut	TUR
5th Karlo Krpeljivic	CRO
Women: Laser Radial	
Entries 56	Countries 23
1st Katarzyna Szotyńska	POL
2nd Larissa Nevevor	ITA
3rd Sara Lane Wright	BER
4th Tatiana Drozdovskaya	BLR
5th Jayne Singleton	GBR
Youth: Laser Radial	
Entries 260	Countries 33
1st Michael Bullot	NZL
2nd Iason Georgis	GRE
3rd Alexandre Monteau	FRA
4th Mathieu Murati	FRA
5th Guray Zimul	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 Yung-Chinman	GRE
4th Petar Cupac	CRO
5th Kemal Muslubas	TUR
Women: Laser Radial	
Entries 33	Countries 16
1st Katarzyna Szotyńska	POL
2nd Nicola Muller	GBR
3rd Jayne Singleton	GBR
4th Jeanette Dagson	SWE
5th Dennis Karacaoğlu	TUR
Youth: Laser Radial	
Entries 137	Countries 31
1st Guray Zimul	TUR
2nd Anders Nyholm	DEN
3rd Arne Nieuwenhuys	NED
4th Antonis Manolakis	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 Gustavo Lima	POR
3rd Teddy Questroy	FRA
4th Luka Radelic	CRO
5th Vagelis 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 Alison Casey	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	PER
2nd Andonis Bougouris	GRE
3rd Alexandros Logothetis	GRE
4th Raimondos Stugzdinis	LTU
5th Luca Radelic	CRO

Women: Laser Radial

Entries 87	Countries 19
1st Larissa Nevierov	ITA
2nd Carolijn Brouwer	NED
3rd Jeanette Dagson	SWE
4th Marcelien 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 Stugzdinis	LTU
2nd Romain Knipping	FRA
3rd Selim Kakis	TUR
4th Benoit Raphaelen	FRA
5th Goncalo Lopes	POR

Women: Laser Radial

Entries 40	Countries 17
1st Sarah Blanck	AUS
2nd Helen Waite	GBR
3rd Anja Sahlberg	SWE
4th Anje de Boer	NED
5th Larissa Nevierov	ITA

Youth: Laser Radial

Entries 122	Countries 31
1st Teddy Quesstroy	FRA
2nd Romain Knipping	FRA
3rd Alastair Gair	NZL
4th Justin Deal	GBR
5th Joao Santos Silva	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 Andrew Kiriljuk	RUS
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 Blanck	AUS
5th Alison Casey	AUS

1995 Tenerife, ESP**Open: Laser Standard**

Entries 137	Countries 39
1st Robert Scheidt	BRA
2nd Nik Burfoot	NZL

3rd Eivind Melleby	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 Kirjikan	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 Yanghe Zhu	CHN
5th Todd Hotzapfel	AUS

Women: Laser Radial

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

1993 Takapuna, NZL**Open: Laser Standard**

Entries 99	Countries 29
1st Thomas Johanson	FIN
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 Slater	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 Camet	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 Makjanic	CRO
4th Michael Hestbaek	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 Katchorhis	GRE

Women: Laser Radial

Entries 33	Countries 10
1st Maria Vlachou	GRE
2nd Carolijn Brouwer	NED
3rd Ourania Flabouri	GRE
4th Roberta Zucchinietti	ITA
5th Marina Psychogiou	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 Shonna Moss	CAN
5th Lotta Nilsson	SWE

1989 Aarhus, DEN**Open: Laser Standard**

Entries 104	Countries 28
1st Glenn Bourke	AUS
2nd Wouter Deurck	NED
3rd Scott Ellis	AUS
4th Francois 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 Camet	USA
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	CAN
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 Lassenby	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	DEN
3rd Benny Andersen	GER
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 Pavesi	ITA
4th Susanne Madsen	DEN
5th Claudine Tatibouet	FRA

1983 Gulport, USA**Open: Laser Standard**

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

Women: Laser Standard

1st Betsy Gelenitis	USA
2nd Lynne Jewell	USA

3rd Carole 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 11
1st Marion Steenhuis	NED
2nd Vittoria Masotto	ITA
3rd Francesca Pavesi	ITA
4th Susanne Schmidt	GER
5th Barbara Champion	GBR

1980 Kingston, CAN**Open: Laser Standard**

Entries 350	Countries 25
1st Ed Baird	USA
2nd Jose Barcel Dias	BRA
3rd John Couriel	NZL
4th Sjaak 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 Kathy Karlson	USA

1979 Perth, AUS**Open: Laser Standard**

Entries 93	Countries 25
1st Lasse Hjortnaes	DEN
2nd Peter Conde	AUS
3rd Andrew Menkart	USA
4th 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 Neeleman	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

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MASTERS WORLD CHAMPIONSHIPS

2018 Dún Laoghaire, IRL

Entries 302 Countries 25

Laser Standard

Apprentices

1st	Leandro Rosado	ESP
2nd	Gord Welsh	CAN
3rd	Roger O'Gorman	IRL
4th	David Quinn	IRL
5th	Pete Smyth	IRL

Masters

1st	Brett Beyer	AUS
2nd	Niklas Edler	SWE
3rd	David Whitt	AUS
4th	Orlando Gedhill	GBR
5th	Peter Hurley	USA

Grand Masters

1st	Mark Lytle	GBR
2nd	Carlos Martinez	ESP
3rd	Arnoud Hummel	NED
4th	Gavin Dagley	AUS
5th	Tomas Nordqvist	SWE

Great Grand Masters

1st	Wolfgang Gerz	GER
2nd	Michael Hicks	GBR
3rd	Charles Campion	GBR
4th	Alan Keen	RSA
5th	Mark Bethwaite	AUS

Laser Radial

Apprentices

1st	Ben Elvin	GBR
2nd	Thomas Chaix	IRL
3rd	Andrew Byrne	GBR
4th	Niall Parel	GBR
5th	David Reamsbottom	IRL

Women Apprentices

1st	Allison Stevens	GBR
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Masters

1st	Scott Leith	NZL
2nd	Ian Jones	GBR
3rd	Robert Hallawell	USA
4th	Andrew Holdsworth	USA
5th	Fredrik Wallander	SWE

Women Masters

1st	Caroline Muselet	CAN
2nd	Giovanna Lenzi	ITA
3rd	Alexandra Wehrauch	GER
4th	Dirma Eisenga	NED
5th	Shirley Gilmore	IRL

Grand Masters

1st	Stephen Cockerill	GBR
2nd	Gustaf Svensson	SWE
3rd	Timothy Woodford	CAN
4th	James Mitchell	AUS
5th	Robert Britten	CAN

Women Grand Masters

1st	Lyndall Patterson	AUS
2nd	Camilla Graves	AUS
3rd	Claudine Tatibouet	FRA
4th	Sue Ritchie	GBR
5th	Lesley Reichenfeld	CAN

Great Grand Masters

1st	Bill Symes	USA
2nd	Lasse Westesson	SWE
3rd	Christopher Boyd	IRL
4th	Jean-Luc Dreyer	SUI
5th	Lorenz Müller	SUI

Women Great Grand Masters

1st	Hilary Thomas	GBR
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Legends (75+)

1st	Peter Seidenberg	USA
2nd	Lindsay Hewitt	USA
3rd	David Wyllie	AUS
4th	Steve Avery	USA
5th	Jay Winberg	USA

Women Legends (75+)

1st	Deirdre Webster	CAN
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2017 Split, CRO

Entries 349 Countries 35

Laser Standard

Apprentices

1st	Maciej Grabowski	POL
2nd	Maxim Semerkh	RUS
3rd	Adonis Bougiouris	GRE
4th	Guilherme Roth	BRA
5th	Girls Fishers-Blu	LAT

Masters

1st	Brett Beyer	AUS
2nd	Peter Hurley	USA
3rd	Ernesto Rodrigo	USA
4th	Niklas Edler	SWE
5th	Chr. Gunn Pedersen	DEN

Grand Masters

1st	Allan Clark	CAN
2nd	Andy Roy	CAN
3rd	Tomas Nordqvist	SWE
4th	Tim Law	GBR

4th	Nick Harrison	GBR
4th	Peter Vessella	USA
5th	Wolfgang Gerz	GER

Great Grand Masters

1st	Michael Nissen	GER
2nd	Mark Bethwaite	AUS
3rd	John Pitman	NZL
4th	Alan Keen	RSA
5th	Doug Peckover	USA

Laser Radial

Apprentices

1st	Jon Emmett	GBR
2nd	Anastasia Chernova	RUS
3rd	Noel Bayard	FRA
4th	David Waiting	RSA
5th	Georgia Chिमونا	GRE

Women Apprentices

1st	Anastasia Chernova	RUS
2nd	Georgia Chिमونا	GRE
3rd	Paula Marino	URU
4th	Alice Virginia Grassi	ITA
5th	Pernilla Ekelund	USA

Masters

1st	Alessio Marinelli	ITA
2nd	Scott Leith	NZL
3rd	Wilmar Groenendijk	NED
4th	Leydet Jean-Christophe	FRA
5th	Edmund Tam	NZL

Women Masters

1st	Giovanna Lenzi	ITA
2nd	Michelle Bain	NZL
3rd	Monica Wilson	USA
4th	Kimberly Couranz	USA
5th	Alexandra Wehrauch	GER

Grand Masters

1st	Martin White	AUS
2nd	Pierantonio Masotto	ITA
3rd	Terry Scutcher	GBR
4th	Rob Cage	GBR
5th	Jeff Loosemore	AUS

Women Grand Masters

1st	Lyndall Patterson	AUS
2nd	Vanessa Dudley	AUS
3rd	Ann Barst	SWE
4th	Lesley Hotchin	GBR
5th	Ute Noack	GER

Great Grand Masters

1st	Bill Symes	USA
2nd	Robert Lowndes	AUS
3rd	Kerry Waraker	AUS
4th	Peter Seidenberg	USA
5th	Peter Heywood	AUS

Women Grand Masters

1st	Hilary Thomas	GBR
2nd	Gill Waiting	NZL
3rd	Deirdre Webster	CAN

Over 75 Masters

1st	Kerry Waraker	AUS
2nd	Peter Seidenberg	USA
3rd	Steve Avery	USA
4th	Roger Williams	GBR
5th	Claude Tigier	FRA

2016 Nuevo Vallarta, MEX

Entries 227 Countries 23

Laser Standard

Apprentices

1st	Pablo Rabago	MEX
2nd	Guilherme Roth	BRA
3rd	Alejandro Rabago	MEX
4th	Alfonso Aguilar	MEX
5th	Fabian Gomez-Ibarra	MEX

Masters

1st	Brett Beyer	AUS
2nd	Ernesto Rodriguez	USA
3rd	Andrew Dellabarca	NZL
4th	Benoit Meesemaeker	FRA
5th	Peter Hurley	USA

Grand Masters

1st	Gavin Dagley	AUS
2nd	Cristian Herman	CHI
3rd	Allan Clark	CAN
4th	Tim Law	GBR
5th	Steve Sunthier	AUS

Great Grand Masters

1st	Mark Bethwaite	AUS
2nd	Doug Peckover	USA
3rd	James Temple	AUS
4th	Alberto Larrea	ARG
5th	John Roberson	AUS

Laser Radial

Apprentices

1st	Scott Leith	NZL
2nd	Jon Emmett	GBR
3rd	Ian Gregory	GBR
4th	Alejandro Rabago	MEX
5th	Fabiana Ramos	BRA

Women Apprentices

1st	Natalya Gontcharova	USA
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Masters

1st	Carlos Eduardo Wanderley	BRA
2nd	Richard Blakey	NZL
3rd	Alessio Marinelli	ITA
4th	Keith Davids	USA
5th	Edmund Tam	NZL

Women Masters

1st	Marcia Macdonald	BRA
2nd	Agneta Johnson	SWE
3rd	Diana Sissingh	GER
4th	Alexandra Wehrauch	GER
5th	Julie Hughes	CAN

Grand Masters

1st	Vanessa Dudley	AUS
2nd	Jeff Loosemore	AUS
3rd	Luis Castro	BRA
4th	Terry Scutcher	GBR
5th	Robert Britten	CAN

Women Grand Masters

1st	Vanessa Dudley	AUS
2nd	Lyndall Patterson	AUS
3rd	Kimhy Luciano	USA

Great Grand Masters

1st	Robert Lowndes	AUS
2nd	William Symes	USA
3rd	Michael Kinneer	GBR
4th	Jon Andron	USA
5th	Kevin Phillips	AUS

Women Great Grand Masters

1st	Hilary Thomas	GBR
1st	Peter Seidenberg	USA
2nd	Kerry Waraker	AUS
3rd	David Hartman	USA
4th	Geoffrey Lucas	AUS
5th	Denis O'Sullivan	IRL

2015 Kingston, CAN

Entries 247 Countries 25

Laser Standard

Apprentices

1st	Adonis Bougiouris	GRE
2nd	Matt Blakey	NZL
3rd	Paul Scullion	GBR
4th	Denzil May	GBR
5th	Ray Davies	CAN

Masters

1st	Brett Beyer	AUS
2nd	Peter Hurley	DOM
3rd	Art Barst	USA
4th	Mark Jacobi	USA
5th	Brad Taylor	AUS

Grand Masters

1st	Peter Shope	USA
2nd	Andy Roy	CAN
3rd	Mark Bear	USA
4th	Vann Wilson	USA
5th	Gavin Dagley	AUS

Great Grand Masters

1st	Mark Bethwaite	AUS
2nd	Aun Kagan	RSA
3rd	Robert Blakey	NZL
4th	David Frazer	USA
5th	John Roberson	AUS

Laser Radial

Apprentices

1st	Scott Leith	NZL
2nd	Zac Skulander	AUS
3rd	Steven Smith	GBR
4th	Pierre-Olivier Roy	CAN
5th	Duncan Whitrow	GBR

Women Apprentices

1st	Erika Vines	USA
2nd	Alexandra Wehrauch	GER
3rd	Dorian Haldeman	USA
4th	Jennifer Ruddy	CAN

Masters

1st	Keith Davids	USA
2nd	Ian Jones	GBR
3rd	Joao Ramos	BRA
4th	Michael Knowsley	NZL
5th	Nigel Heath	CAN

Women Masters

1st	Kimberly Couranz	USA
2nd	Monica Peltich	USA
3rd	Monica Wilson	USA
4th	Julie Stewart	CAN
5th	Lisa Pelling	CAN

Grand Masters

1st	Allan Clark	CAN
2nd	Terry Scutcher	GBR
3rd	Robert Britten	CAN
4th	Jeff Loosemore	AUS
5th	Tim Woodford	CAN

Women Grand Masters

1st	Paula Samson	CAN
2nd	Judith Krimski	USA
1st	Robert Lowndes	AUS
2nd	Bill Symes	USA
3rd	Keith Wilkins	GBR

4th	Daniel Devos	FRA
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5th	Michael Kinneer	GBR
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Women Great Grand Masters

1st	Hilary Thomas	GBR
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Over 75 Masters

1st	Peter Seidenberg	USA
2nd	Johan van Rossem	CAN
3rd	Michael Shields	NZL
4th	Heini Velmann	SUI
5th	Geoffrey Lucas	AUS

Women Over 75 Masters

1st	Deidre Webster	CAN
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2014 Hyeres, FRA

Entries 499 Countries 36

Laser Standard

Apprentices

1st	Adonis Bougiouris	GRE
2nd	Marciel Grabowski	POL
3rd	Matt Blakey	NZL
4th	Angelo Taberner	ESP
5th	Urban Nyhammar	SWE

Masters

1st	Brett Beyer	AUS
2nd	Arnoud Hummel	NED
3rd	Peter Shope	USA
4th	Scott Ferguson	USA
5th	Christian Gunn Pedersen	DEN

Grand Masters

1st	Nick Harrison	GBR
2nd	Andy Roy	CAN
3rd	Peter Vessella	USA
4th	Colin Dilb	AUS
5th	Wolfgang Gerz	GER

Great Grand Masters

1st	Mark Bethwaite	AUS
2nd	Robert Blakey	NZL
3rd	John Dawson Edwards	CAN
4th	John Roberson	AUS
5th	Christopher Fyans	GBR

2013 Al Mussanah, OMA	
Entries 186	Countries 31
Laser Standard	
Apprentices	
1st Scott Leith	NZL
2nd Niklas Edler	SWE
3rd Alastair Tate	NZL
4th Kris Decker	NZL
5th Alan Coutts	OMA
Masters	
1st Al Clark	CAN
2nd Arnoud Hummel	NED
3rd Chris Dawson	AUS
4th Benoit Meemeacker	FRA
5th Torbjørn Jonsson	SWE
Grand Masters	
1st Greg Adams	AUS
2nd Terry Scutcher	GBR
3rd Wolfgang Gerz	GER
4th Tim Law	GBR
5th Robert Britten	CAN
Great Grand Masters	
1st Mark Bethwaite	AUS
2nd Robert Blakey	NZL
3rd John Robertson	AUS
4th Sandy Grigg	NZL
5th Stephen Wawn	AUS
Laser Radial	
Apprentices	
1st Jon Emmett	GBR
2nd Fabio Szyma Ramos	BRA
3rd Edmund Tam	NZL
4th Ian Gregory	GBR
5th Niall Peelo	GBR
Women Apprentices	
1st Kimberly Couranz	USA
2nd Alexandra Weirrauch	GER
Masters	
1st Ian Jones	GBR
2nd Joao Ramos	BRA
3rd Martin Van Olfen	NED
4th Matthias Bruhl	GER
5th Robert Cage	GBR
Women Masters	
1st Agneta Jonsson	SWE
2nd Diane Sissingh	AUS
3rd Martien Zeegers-Nouwen	NED
4th Lindsay Whitton	AUS
Grand Masters	
1st Vanessa Dudley	AUS
2nd Bruce Martinson	USA
3rd Michael Pridham	GBR
4th Doug Peckover	USA
5th Bo Johannisson	SWE
Women Grand Masters	
1st Vanessa Dudley	AUS
Great Grand Masters	
1st Peter Seidenberg	USA
2nd Keith Wilkins	GBR
3rd Henk Wittenberg	NED
4th Michael Kinnear	GBR
5th Steve Avery	USA
Women Great Grand Masters	
1st Hilary Thomas	GBR
2nd Elaine Capps	AUS

2012 Brisbane, AUS	
Entries 232	Countries 19
Laser Standard	
Apprentices	
1st Matias Del Solar	CHI
2nd Tony Baisden	AUS
3rd Brett Morris	AUS
4th Kent Coplestone	NZL
5th Rob Woodward	NZL
Masters	
1st Brett Beyer	AUS
2nd Bradley Taylor	AUS
3rd Sean Atherton-Feeney	AUS
4th Andrew Dellabarca	NZL
5th Mike Matan	GBR
Grand Masters	
1st Wolfgang Gerz	GER
2nd Tracy Usher	USA
3rd Andre Martinie	DOM
4th Malcolm Courts	GBR
5th Mark Bethwaite Am	AUS
Laser Radial	
Apprentices	
1st Scott Leith	NZL
2nd Richard Bott	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	AUS
5th Kirsteen Reid	RSA
Grand Masters	
1st Michael Keaton	NZL
2nd Adam French	AUS
3rd Pete Thomas	NZL
4th Doug Peckover	USA
5th Jeff Loosemore	AUS
Women Grand Masters	
1st Lyndall Patterson	AUS
2nd Lesley Reichenfeld	CAN
Great Grand Masters	
1st Kerry Waraker	AUS
2nd Keith Wilkins	GBR
3rd Peter Seidenberg	USA
4th Kevin Phillips	AUS
5th Lew Verdon	AUS
Women Great Grand Masters	
1st Hilary Thomas	GBR
Laser 4.7	
Masters	
1st Claire Heenan	AUS
2nd Peter Charlton	AUS
3rd George Meikle	AUS
4th Martin Brady	AUS
5th Bronwyn Mitchell	AUS
Women Masters	
1st Claire Heenan	AUS
2nd Bronwyn Mitchell	AUS
3rd Michelle Lefevre	RSA
4th Janet Kemp	AUS
5th Jenny Walker	AUS

2011 San Francisco, USA	
Entries 236	Countries 27
Laser Standard	
Apprentices	
1st Benjamin Richardson	USA
2nd Orlando Gledhill	GBR
3rd Kevin Taucher	USA
4th Gaspare Silvestri	ITA
5th David Armitage	USA
Masters	
1st Arnoud Hummel	NED
2nd Brett Beyer	AUS
3rd Scott Ferguson	USA
4th Russ Silvestri	USA
5th Otto Strandvig	DEN
Grand Masters	
1st Scott Leith	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 Buffy Arnold	USA
2nd Michelle Davis	USA
3rd Kate Easton	CAN
Masters	
1st Al Clark	CAN
2nd Carlos E. Wanderley	BRA
3rd Marcelo Fuchs	BRA
4th Gary Ratcliffe	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 Irina Pasutin	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 Arnoud Hummel	NED
3rd John Bertrand	USA
4th Christian Gunni 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 Muelet	CAN
2nd Rosie Tribe	GBR
3rd Brenda Hoult	GBR
Masters	
1st Stephen Cockerill	GBR
2nd Joao Ramos	BRA
3rd Hamish Atkinson	NZL
4th Carlos E. Wanderley	BRA
5th Ian Escritt	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	NZL
Women Grand Masters	
1st Lyndall Patterson	AUS
2nd Janet Kemp	AUS
Great Grand Masters	
1st Keith Wilkins	GBR
2nd Peter Seidenberg	USA
3rd Johan Stam	NED
4th Jim Quinn	NZL
5th Kerry Waraker	AUS
Women Great Grand Masters	
1st Hilary Thomas	GBR
2nd Deirdre Webster	CAN

2009 Halifax, CAN	
Entries 295	Countries 26
Laser Standard	
Apprentices	
1st Adonis Bougiouris	GRE
2nd Brett Beyer	AUS
3rd Orlando Gledhill	GBR
4th Ray Davies	CAN
5th Stewart Casey	USA
Masters	
1st Scott Ferguson	USA
2nd Arnoud Hummel	NED
3rd Andrew Pimental	AUS
4th Mark Bear	AUS
5th Jan Scholten	USA
Grand Masters	
1st Wolfgang Gerz	GER
2nd Mark Bethwaite	AUS
3rd Alan Keen	RSA
4th Jack Schlachter	AUS
5th Bill Symes	USA
Laser Radial	
Apprentices	
1st Richard Bolt	AUS
2nd Scott Leith	NZL
3rd Grant Willmott	AUS
4th Edmund Tam	NZL
5th Matthias Bruhl	GER
Women Apprentices	
1st Alison Casey	AUS
2nd Yvonne Malmsten	SWE
3rd Kimberly Couranz	USA
Masters	
1st Carlos E. Wanderley	BRA
2nd Greg Adams	AUS
3rd Joao Ramos	BRA
4th Michael Knowsley	NZL
5th Nigel Heath	CAN

Women Masters	
1st Lyndall Patterson	AUS
2nd Vanessa Dudley	AUS
3rd Agneta Jonsson	SWE
Grand Masters	
1st Peter Heywood	AUS
2nd Michael Pridham	GBR
3rd Ian Rawet	GBR
4th Alden Shattuck	USA
5th Kevin Pearson	GBR
Women Grand Masters	
Masters	
1st Sally Sharp	USA
2nd Hilary Thomas	GBR
3rd Gill Waiting	NZL
Great Grand Masters	
1st Peter Seidenberg	USA
2nd Kerry Waraker	AUS
3rd Michael Kinnear	GBR
4th Jim Quinn	NZL
5th Lindsay Hewitt	USA
Women Great Grand Masters	
1st Deirdre Webster	CAN

2008 Terrigal, AUS	
Entries 370	Countries 22
Laser Standard	
Apprentices	
1st Brett Beyer	AUS
2nd Rohan Lord	NZL
3rd Jyrki Taiminen	FIN
4th Orlando Gledhill	GBR
5th Christopher Gowers	GBR
Masters	
1st Jan Scholten	AUS
2nd Bradley Taylor	AUS
3rd Peter Conde	AUS
4th Andy Roy	CAN
5th Colin Dibb	AUS
Grand Masters	
1st Mark Bethwaite	AUS
2nd Wolfgang Gerz	GER
3rd Jack Schlachter	AUS
4th Robert Lowndes	AUS
5th Michael Nissen	GER
Laser Radial	
Apprentices	
1st James Liebl	USA
2nd John Jagger	AUS
3rd Richard Bott	AUS
4th Scott Leith	NZL
5th David Early	AUS
Women Apprentices	
1st Alison Casey	AUS
2nd Justine Ella	AUS
3rd Yvonne Malmsten	SWE
Masters	
1st Mark Orams	NZL
2nd Stephen Cockerill	GBR
3rd Greg Adams	AUS
4th Al Clark	CAN
5th Chris Raab	USA
Women Masters	
1st Christine Bridge	AUS
2nd Lyndall Patterson	AUS
3rd Vanessa Dudley	AUS
Grand Masters	
1st Peter Heywood	AUS
2nd Brian Watson	AUS
3rd Peter Whipp	GBR
4th Lew Verdon	AUS
5th Ian Rawet	GBR
Women Grand Masters	
1st Gill Waiting	NZL
Great Grand Masters	
1st Peter Seidenberg	USA
2nd Kerry Waraker	AUS
3rd Tom Speed	NZL
4th Jim Quinn	NZL
5th Howard Taylor	AUS

2007 Roses, ESP	
Entries 419	Countries 33
Laser Standard	
Apprentices	
1st Brett Beyer	AUS
2nd Orlando Gledhill	GBR
3rd Stephen Cockerill	GBR
4th Xav Leclair	FRA
5th Erasun Echavari	ESP
Masters	
1st Arnoud Hummel	NED
2nd Al Clark	CAN
3rd César Sierhuis	NED
4th Scott Ferguson	USA
5th Peter Vessella	USA
Grand Masters	
1st Mark Bethwaite	AUS
2nd Michael Nissen	GER
3rd Anders Sörensson	SWE
4th Jack Schlachter	AUS
5th William Symes	USA

Laser Radial

Apprentices	
1st Mark	NZL
2nd Freek Miranda	NED
3rd Wilmar Groenendijk	NED
4th Matthias Bruheli	GER
5th David Early	AUS
Women Apprentices	
1st Agnetta Jonsson	SWE
2nd Yvonne Malmlsten	SWE
3rd Christelle Marsault	FRA
Masters	
1st Greg Adams	AUS
2nd Robert Cage	GBR
3rd Martin Baltischefsky	FIN
4th John Reay	GBR
5th Richard Major	GBR

Women Masters	
1st Lyndall Patterson	AUS
2nd Janet Kemp	AUS
3rd Claudine Tatibout	FRA

Grand Masters	
1st Peter Heywood	AUS
2nd Peter Whipp	GBR
3rd Alden Shattuck	USA
4th Ian Rawet	GBR
5th Serge Raphaelen	FRA

Women Grand Masters	
1st Hilary Thomas	GBR
2nd Caroline Marriage	GBR

Great Grand Masters	
1st Peter Seidenberg	USA
2nd Kerry Waraker	AUS
3rd Heini Wellmann	SUI
4th Greg Marshall	AUS
5th Bill Watson	GBR

Women Great Grand Masters	
1st Deirdre Webster	CAN

2006 Jeju Island, KOR

Entries 72 Countries 14

Laser Standard

Apprentices	
1st Brett Beyer	AUS
2nd Orlando Gledhill	GBR
3rd Giles Grigg	NZL
4th Richard Blakey	NZL
5th Kevin Currier	IRL

Masters	
1st Brodie Cobb	USA
2nd Tracy Usher	USA
3rd Mark Bear	USA
4th Andre Martinie	DOM
5th Malcolm Courts	GBR

Grand Masters	
1st Doug Peckover	USA
2nd Robert Lowndes	AUS
3rd Derek Breitenstein	FIN
4th Bob Blakey	NZL
5th Ken Brown	CAN

Laser Radial**Apprentices**

1st Steve Cockerill	GBR
2nd Mark Page	NZL
3rd David Early	AUS
4th Christine Bridge	AUS

Masters	
1st Greg Adams	AUS
2nd Bruce Martinson	AUS
3rd Martin Baltischefsky	FIN
4th Lyndall Patterson	AUS
5th Gregory Kemp	AUS

Grand Masters	
1st Alden Shattuck	AUS
2nd Peter Whipp	GBR
3rd Ian Rawet	GBR
4th Mark Miller	NZL
5th Hilary Thomas	GBR

Great Grand Masters	
1st Peter Seidenberg	USA
2nd Kerry Waraker	AUS
3rd Sandy Grigg	NZL
4th Tom Speed	NZL
5th Gregg Marshall	AUS

Women

1st Christine Bridge	AUS
2nd Lyndall Patterson	AUS
3rd Janet Kemp	AUS
4th Hilary Thomas	GBR
5th Lesley Hotchin	GBR

2005 Fortaleza, BRA

Entries 183 Countries 25

Laser Standard

Apprentices	
1st Brett Beyer	AUS
2nd Xavier Leclair	FRA
3rd Scott Ferguson	USA
4th Mark Page	NZL
5th Larry Kleist	AUS

Masters

1st Murray Thom	NZL
2nd Peter Conde	AUS
3rd Kurt Miller	USA
4th Gonzalo Campero	ARG
5th Vann Wilson	USA

Grand Masters

1st Mark Bethwaite	AUS
2nd Nicolas Livingstone	GBR
3rd Keith Wilkins	GBR
4th Ted Moore	USA
5th John Dawson Edwards	CAN

Laser Radial**Apprentices**

1st Mark Orams	NZL
2nd Stephen Cockerill	GBR
3rd Carlos Eduardo Wanderley	BRA
4th David Early	HKG
5th Wilmar Groenendijk	NED

Women Apprentices	
1st Kim Ferguson	USA
2nd Lisa Garity	AUS

Masters

1st Alexander Nikolaev	RUS
2nd Adam French	USA
3rd Chris Raab	USA
4th Aldo Cezar Guimarães	BRA
5th Lyndall Patterson	AUS

Women Masters

1st Lyndall Patterson	AUS
2nd Janet Kemp	AUS
3rd Kathy Herrmann	AUS

Grand Masters

1st Peter Heywood	AUS
2nd Gary McCrohon	AUS
3rd Alden Shattuck	USA
4th Poopy Marcon	FRA
5th Peter Whipp	GBR

Great Grand Masters

1st Kerry Waraker	AUS
2nd Peter Seidenberg	USA
3rd Denis O'Sullivan	IRL
4th Heini Wellmann	SUI
5th Sandy Grigg	NZL

2004 Bitez, TUR

Entries 153 Countries 30

Standard Rig

Apprentices	
1st Brett Beyer	AUS
2nd Stephen Cockerill	GBR
3rd Martin Lehner	AUT
4th Nick Walsh	IRL
5th Mati Sepp	EST

Masters

1st Colin Dibb	AUS
2nd Jack Schlachter	AUS
3rd Tracy Usher	USA
4th Brett Wright	BER
5th Mark Bear	USA

Grand Masters

1st Mark Bethwaite	AUS
2nd Magnus Olin	SWE
3rd David Edmiston	AUS
4th Robert Lowndes	AUS
5th Sandy Grigg	NZL

Laser Radial**Apprentices**

1st David Early	HKG
2nd Aydin Yurdum	TUR
3rd Martin Baltischefsky	FIN
4th Bulent Baha Akin	TUR
5th Claudio Gallizioli	ITA

Women Apprentices

1st Yvonne Malmlsten	SWE
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Masters

1st Goran Bonacic	CRO
2nd Lyndall Patterson	AUS
3rd Tracy Usher	USA
4th Olivier Falque	FRA
5th Laurent Vigo	FRA

Women Masters

1st Lyndall Patterson	AUS
2nd Poopy Marcon	FRA
2nd Alden Shattuck	USA
3rd Peter Whipp	GBR
4th Heini Wellmann	SUI
5th Mark Miller	NZL

Great Grand Masters

1st Peter Seidenberg	USA
2nd Jack Hansen	NZL
3rd Kenneth Holiday	RSA
4th Denis O'Sullivan	IRL
5th David Flakelar	AUS

2003 Cadiz, ESP

Entries 236 Countries 27

Laser Standard**Apprentices**

1st Mark Littlejohn	GBR
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2nd Stephen Cockerill	GBR
3rd Brett Beyer	AUS
4th Jyrki Taiminen	FIN
5th Huub Lambriex	NED

Masters

1st Anders Sorensson	SWE
2nd Chris Raab	USA
3rd Martin Courts	GBR
4th Nick Harrison	GBR
5th Alexander Nikolaev	RUS

Grand Masters

1st Mark Bethwaite	AUS
2nd Keith Wilkins	GBR
3rd Kevin Pearson	GBR
4th Kim Weber	FIN
5th William Symes	USA

Laser Radial**Apprentices**

1st Wilmar Groenendijk	NED
2nd Thomas Deimling	GER
3rd Roberta Hartley	GBR
4th Martin Baltischefsky	FIN
5th Luis Martin Propato	ARG

Women Apprentices

1st Roberta Hartley	GBR
2nd Yvonne Malmlsten	SWE
3rd Susan Brown	GBR

Masters

1st Alastair McMichael	AUS
2nd Bruce Martinson	USA
3rd Lyndall Patterson	AUS
4th Christian Borenius	FIN
5th Peter Whipp	GBR

Women Masters

1st Lyndall Patterson	AUS
2nd Jan Kemp	AUS
3rd Okumura Hiroko	JPN

Grand Masters

1st Alden Shattuck	USA
2nd Henk Wittenberg	NED
3rd Gary McCrohon	AUS
4th Roger Williams	BER
5th Gerard Jeannot	FRA

Great Grand Masters

1st Peter Seidenberg	USA
2nd Tom Speed	NZL
3rd Bill Watson	GBR
4th Heinz Gebauer	CAN
5th Denis O'Sullivan	IRL

2002 Hyannis, USA

Entries 270 Countries 24

Laser Standard**Apprentices**

1st Andreas John	GER
2nd Brett Beyer	AUS
3rd Mark Littlejohn	GBR
4th Andy Pimental	USA
5th Jyrki Taiminen	FIN

Masters

1st Ed Adams	USA
2nd Mark Bear	USA
3rd Peter Vessella	USA
4th Charles Tripp	USA
5th Tracy Usher	USA

Grand Masters

1st Keith Wilkins	GBR
2nd Bill Symes	USA
3rd Peter Seidenberg	USA
4th Robert Lowndes	AUS
5th Jack Hansen	NZL

Laser Radial**Apprentices**

1st Stephen Cockerill	GBR
2nd Mark Orams	NZL
3rd Wilmar Groenendijk	NED
4th Ryan Minth	USA
5th Robert Falk	USA

Masters

1st Adam French	AUS
2nd Alden Shattuck	USA
3rd Bruce Martinson	USA
4th Diane Burton	USA
5th Richard Ineson	NZL

Grand Masters

1st Lindsay Hewitt	USA
2nd Colin Maddren	NZL
3rd Mark Miller	NZL
4th James Johnston	USA
5th Lew Verdon	AUS

Great Grand Masters

1st Dick Tillman	USA
2nd Henry de Wolf Jr.	USA
3rd Heinz Gebauer	CAN
4th Jim Christopher	GBR
5th Peter Raymer	GBR

Women

1st Diane Burton	USA
2nd Jane Codman	USA
3rd Sally Sharp	USA
4th Yvonne Malmlsten	SWE

5th Debbie Phillips	GBR
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2001 Cork, IRL

Entries 314 Countries 25

Laser Standard**Apprentices**

1st Brett Beyer	AUS
2nd Mark Littlejohn	GBR
3rd Doug McGain	AUS
4th Mark Lyttle	IRL
5th Marc Jacobi	USA

Masters

1st Colin Dibb	AUS
2nd Ian Lineberger	USA
3rd Anders Sorensson	SWE
4th Mark Bethwaite	AUS
5th Malcolm Courts	GBR

Grand Masters

1st Keith Wilkins	GBR
2nd Philip Pegler	AUS
3rd Jacky Nebrel	FRA
4th Bob Blakey	NZL
5th Barry Waller	AUS

Laser Radial**Great Grand Masters**

1st Henry de Wolf Jr.	USA
2nd Fradin Schoettle	USA
3rd Heinz Gebauer	CAN
4th Anthony Denham	AUS
5th James Christopher	USA

Laser Radial Open

1st Stephen Cockerill	GBR
2nd Wilmar Groenendijk	NED
3rd Thomas Urban	SWE
4th John Reay	GBR
5th Hugh Le Michon	FRA

Laser Radial Women

1st Roberta Hartley	GBR
2nd Lyndall Patterson	AUS
3rd Claire Davison	GBR
4th Yvonne Malmlsten	SWE
5th Jan Kemp	USA

2000 Cancun, MEX

Entries 147 Countries 20

Laser Standard**Apprentices**

1st Alan Davis	GBR
2nd Alexandre Nikolaev	RUS
3rd Terry Soutcher	GBR
4th Bill O'Hara	IRL
5th Martin Halsten	SWE

Masters

1st Mark Bethwaite	AUS
2nd Rob Courts	NZL
3rd Doug Peckover	USA
4th Jack Schlachter	AUS
5th Alan Keen	RSA

Grand Masters

1st Keith Wilkins	GBR
2nd Dick Tillman	USA
3rd Joe van Rossem	CAN
4th Ian Rawet	GBR
5th Tom Speed	NZL

Laser Radial**Great Grand Masters**

1st Henry de Wolf Jr.	USA
2nd Kurt Zueger	SUI
3rd Heinz Gebauer	CAN
4th Geoffrey Myburgh	RSA
5th Robert Saltmarsh	USA

Laser Radial Open

1st Adam French	AUS
2nd Wilmar Groenendijk	NED
3rd Glyn Purnell	GBR
4th Lew Verdon	AUS
5th Henry de Wolf Jr.	USA

Laser Radial Women

1st Sally Sharp	USA
2nd Jennie King	GBR
3rd Karyn Vooos	USA
4th Alison Knight	IVB

1999 Melbourne, AUS

Entries 237 Countries 22

Laser Standard**Apprentices**

1st Mark Littlejohn	GBR
2nd Andreas John	GER
3rd Alan Davis	GBR
4th Bill O'Hara	IRL
5th Brad Taylor	AUS

Masters

1st Keith Wilkins	GBR
2nd Peter Sundevik	SWE
3rd Doug Peckover	USA
4th Jack Schlachter	AUS
5th Timothy Alexander	AUS

2nd	Jack Hansen	NZL
3rd	Keith Vann	NZL
4th	Ben Piefke	AUS
5th	Kerry Waraker	AUS

Laser Radial

Great Grand Masters		
1st	Graham Read	AUS
2nd	Haruyoshi Kimura	JPN
3rd	Geoffrey Myburgh	RSA
4th	Kurt Zueger	SUI
5th	Peter O'Grady	AUS

Laser Radial Open

1st	Mark Orams	NZL
2nd	Alexandre Nikolaev	RUS
3rd	Frank Innon	AUS
4th	Wilmar Groenendijk	NED
5th	Adam French	AUS

Laser Radial Women

1st	Lyndall Patterson	AUS
2nd	Helen Cooksey	AUS
3rd	Sally Sharp	USA
4th	Susan Fielding	AUS
5th	Lesley Hotchin	GBR

1997 Algarrobo, CHI

Entries 128 Countries 21

Laser Standard

Apprentices		
1st	Herman Cristian	CHI
2nd	Alan Davis	GBR
3rd	Marcelo Fuschs	BRA
4th	Terry Scutcher	GBR
5th	Bill O'Hara	IRL

Masters

1st	Doug Peckover	USA
2nd	Mark Bethwaite	AUS
3rd	Keith Wilkins	GBR
4th	Jack Schlachter	AUS
5th	Barry Waller	AUS

Grand Masters

1st	Colin Lovelady	AUS
2nd	Peter Seidenberg	USA
3rd	Wilhelm Gerlinger	GER
4th	Joe Van Rossem	CAN
5th	Jack Hansen	NZL

Laser Radial

Great Grand Masters		
1st	Heinz Gebauer	CAN
2nd	Doug Bates	NZL
3rd	Graham Reed	AUS
4th	Peter Raymer	GBR
5th	Robert Saltmarsh	USA
Laser Radial Open		
1st	Wilmar Groenendijk	NED
2nd	Aydin Yurdum	TUR
3rd	Alexandre Nikolaev	RUS
4th	Gary McCrohon	AUS
5th	Heinz Gebauer	CAN

1996 Cape Town, RSA

Entries 155 Countries 21

Laser Standard

Apprentices		
1st	Peter Wilson	RSA
2nd	Robert Douglass	AUS
3rd	Regis Berenguer	FRA
4th	Terry Scutcher	GBR
5th	Chris Rodowicz	AUS

Masters

1st	Keith Wilkins	GBR
2nd	Mark Bethwaite	AUS
3rd	Alan Keen	RSA
4th	Barry Waller	AUS
5th	Doug Peckover	USA

Grand Masters

1st	Ben Piefke	AUS
2nd	Denis O'Sullivan	IRL
3rd	Colin Lovelady	AUS
4th	Peter Seidenberg	USA
5th	Ken Holiday	RSA

Laser Radial

Laser Radial Open		
1st	Adam French	AUS
2nd	Alexandre Nikolaev	RUS
3rd	Kevin Bloor	AUS
4th	Rui Sancho	ANG
5th	Gary McCrohon	AUS

1995 Tenerife, ESP

Entries 113 Countries 20

Apprentices

1st	Nicholas Harrison	GBR
2nd	Lance Burger	RSA
3rd	Tomas Franzen	SWE
4th	Peter Saxton	GBR
5th	Norio Akiyama	JPN

Masters

1st	Keith Wilkins	GBR
2nd	Barry Waller	AUS
3rd	Ted Moore	USA

4th	Pieter Dekker	NED
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5th	Jacky Nebrel	FRA
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Grand Masters

1st	Colin Lovelady	AUS
2nd	Peter Seidenberg	USA
3rd	Jack Hansen	NZL
4th	Joe Van Rossem	CAN
5th	Michael Heath	AUS

1994 Wakayama, JPN

Entries 131 Countries 15

Apprentices

1st	Norio Akiyama	JPN
2nd	Nicholas Harrison	GBR
3rd	Nelson Horn Ilha	BRA
4th	Koichiro Naito	JPN
5th	Doug Peckover	USA

Masters

1st	Keith Wilkins	GBR
2nd	Hiroyuki Uehara	JPN
3rd	Mark Bethwaite	AUS
4th	Kentaro Hirano	JPN
5th	Ian Rawley	GBR

Grand Masters

1st	Colin Lovelady	AUS
2nd	Peter Seidenberg	USA
3rd	Denis O'Sullivan	IRL
4th	Barry Pownall	AUS
5th	Tony Denham	AUS

1993 Takapuna, NZL

Entries 186 Countries 22

Apprentices

1st	Paul Page	NZL
2nd	Neville Wittey	AUS
3rd	Murray Thom	NZL
4th	Andrew York	AUS
5th	Lance Burger	USA

Masters

1st	Keith Wilkins	GBR
2nd	John Rigg	AUS
3rd	Mark Bethwaite	AUS
4th	Barry Waller	AUS
5th	John Douglas	NZL

Grand Masters

1st	Colin Lovelady	AUS
2nd	Denis O'Sullivan	USA
3rd	Barry Pownall	AUS
4th	Ralph Ellis	AUS
5th	John Maynard	GBR

Great Grand Masters

1st	Doug Bates	NZL
2nd	Robert Saltmarsh	USA

Women

1st	Jill Robertson	CAN
2nd	Sally Sharp	USA

1991 Porto Carras, GRE

Entries 107 Countries 23

Laser Standard

Apprentices		
1st	Stephen Birbeck	GBR
2nd	Mark Phillips	AUS
3rd	Mario Orlich	ITA
4th	Geoffrey McGillivray	AUS
5th	Peter Wolfe	IRL

Masters

1st	Keith Wilkins	GBR
2nd	Peter Seidenberg	CAN
3rd	Barry Waller	AUS
4th	Willi Gerlinger	GER
5th	Ilkka Schroderus	FIN

Grand Masters

1st	Colin Lovelady	AUS
2nd	Friedhelm Lixenfeld	GER
3rd	Heinz Gebauer	CAN
4th	Nick Paine	GBR
5th	Tony Denham	AUS

1990 New Bedford, USA

Entries 112 Countries 19

Apprentices

1st	Kim Zetterberg	USA
2nd	Michael Stovin-Bradford	AUS
3rd	Mark Phillips	AUS
4th	Geoffrey McGillivray	AUS
5th	Had Brick	USA

Masters

1st	Denis O'Sullivan	IRL
2nd	Peter Seidenberg	CAN
3rd	Joe Van Rossem	CAN
4th	Curt Bildner	SWE
5th	David Olson	USA

Grand Masters

1st	Friedhelm Lixenfeld	GER
2nd	Jim Christopher	USA
3rd	Tony Denham	AUS
4th	Norman Freeman	USA
5th	Nick Paine	GBR

1989 Aarhus, DEN

Entries 114 Countries 25

Apprentices

1st	Keith Wilkins	GBR
2nd	Phil Graves	CAN
3rd	Jeff Loosemore	AUS
4th	Had Brick	USA
5th	Peter Griffiths	NZL

Masters

1st	John Rigg	AUS
2nd	Curt Bildner	SWE
3rd	Christopher Baath	SWE
4th	Denis O'Sullivan	IRL
5th	Peter Seidenberg	CAN

Grand Masters

1st	Friedhelm Lixenfeld	GER
2nd	Jack Swenson	CAN
3rd	Heinz Gebauer	CAN
4th	Nick Paine	GBR
5th	Robert Saltmarsh	USA

1988 Falmouth, GBR

Entries 156 Countries 24

Apprentices

1st	Jeff Loosemore	AUS
2nd	Philip Graves	CAN
3rd	Had Brick	CAN
4th	Keith Wilkins	GBR
5th	Peter Heywood	AUS

Masters

1st	Peter Seidenberg	CAN
2nd	Colin Lovelady	AUS
3rd	John Maynard	GBR
4th	John Rigg	AUS
5th	Nils Andersson	USA

Grand Masters

1st	Friedhelm Lixenfeld	GER
2nd	Geoffrey Myburgh	RSA
3rd	Heinz Gebauer	CAN
4th	Peter Milnes	USA
5th	Jan Nouwen	NED

1987 Melbourne, AUS

Entries 106 Countries 22

Apprentices

1st	Phil Peglar	AUS
2nd	Warwick Phillips	AUS
3rd	John Sprague	AUS
4th	Geoff Gale	AUS
5th	Willi Gerlinger	GER

Masters

1st	John Rigg	AUS
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	GBR
3rd	Alister 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	IRL

Grand Masters

1st	Alec 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	Phillip Peglar	AUS
3rd	Peter Branning	USA
4th	Carolee 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	Jacky Nebrel	FRA
3rd	Michael Wallace	IRL
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	Alec 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 Teikens	GER
3rd	Michael Nerbollier	SUI
4th	Werner Winter	GER
5th	Wolf Peter Niesen	GER

Masters

1st	Nick Paine</
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International Laser Class Association



Register your Laser with your National Laser Association and keep up-to-date with News, Events and class rules updates...

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.

You can register by completing this form and sending to your nearest District Contact. Details of your District Contact can be found on pages 22-25 of this ILCA Handbook or at www.laserinternational.org.

Name

Address

.....

.....

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