International Laser Class Association

2019 Handbook

Constitution and Class Rules

원저: 2019 Handbook / International Laser Class Association
번역: 한국레이저요트협회 클래스규칙번역소위원회
위원장: 신영대 이사, 위원: 황지아 이사, 진홍철 이사, 박성진 국장
배포: 한국레이저요트협회 (2019/03/01)
문의: YachtLaserKorea@gmail.com

World Sailing
Class Association

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.

Class Rules Index

레이저클래스 규칙-원디자인

레이저의 매력 중 하나는 원디자인 보트로서 클래스 규칙이 매우 엄격하게 적용된다는 것입니다. 본 규칙에는 쓸데없이 보트에 허비하는 시간없이 바로 세일링을 하게 하는 레이저의 철학이 녹아있습니다. 규칙집을 뒤져 경기에 이득을 주는 방법을 찾기 보다는 자신의 세일링 기술로만 승리할 수 있도록 하기를 원합니다.
물 위에서는 모든 보트가 같아야 하기 위해 표준 보트에 대해 성능에 영향을 미칠 수도 있는 어떤 변경도 허락하지 않는 다는 개념으로 본 규칙이 만들어 졌습니다. 표준 보트에 대한 변경은 아주 사소한 것이어야 하며 더 편안하고 즐거운 경기를 위한 약간의 변경에 대해서만 허락됩니다.
수년 동안 클래스는 더 비싸지거나 더 복잡한 장비가 되거나 오래된 보트를 불필요하게 만드는 규칙이 되는 것을 거부해왔습니다.
만일 당신이 레이저의 무엇인가를 변경해야 한다고 생각되시면 – 멈추세요. 그 변경이 왜 필요한지 스스로에게 물어 보시고, 그 대답이 만약 "보트를 더 빨리 갈수 있게 만드는 것"이라면 그 변경이나 추가는 보나마나 규칙 위반이 될 겁니다!
레이저 규칙을 잘 살펴 보시기 바랍니다.

- 제 1 장은 철학과 규칙에 구체적으로 기술되지 않은 항목을 다루는 기본 클래스 규칙을 설명합니다.
- 제 2 장은 합법적인 보트를 갖기 위해 해야 할 일을 알려줍니다.
- 제 3 장에서는 몇 가지 선택적 변경 사항과 추가 사항에 대해 자세히 설명합니다.

만일 제 3 장에서 구체적으로 허용하지 않은 변경이나 추가가 있다면 - 위반입니다!
즉, 규칙이 허락하지 않은 변경이나 추가가 있는 레이저로 경기에 나간다면, 그 경기는 실격처리 될 것입니다. 규칙을 무시한 것에 대해서는 변명이 필요 없습니다.

속임수

스포츠에서 어떤 클럽이나 클래스든 이기기 위해 속임수로 규칙을 위반하려는 자가 있기 마련입니다. 속임수란 당신이 그것으로 이익을 얻었던 그렇지 않았던 규칙위반 임을 알면서도 그 행위를 하는 것입니다.
우리 클래스가 건실하고 대중적인 이유는 우리 세일러들이 동일한 조건에서 경기를 하고자 하는 마음과 엄격하게 적용된 원디자인에 대한 믿음 때문입니다. ILCA 는 규칙을 따르지 않는 레이저 세일러들에게 매우 엄격한 제재를 가합니다. 과거에 규칙위반 보트를 탔던 세일러에게 레이저 타는 것을 금지한 경우도 있었으며, 평생 못 타도록 제재할 수 있습니다. 경기 규칙에 따라 제재가 필요하다면 어떤 보트 건 경기 출전에 제재를 가할 수 있습니다.
우리 클래스는 레이저 또는 장비의 불법개조에 의해 이익을 보려는 괴짜들보다 더 위대한 단체 입니다. 그런 괴짜들은 보트 개조를 허락하는 다른 클래스에서 세일링하면 됩니다. 우리는 결코 그들과 함께하지 않습니다.

클래스규칙 차례

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

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

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

www.laserinternational.org 에서 가장 최신의 레이저 클래스 규칙과 조항들을 구할 수 있습니다.

ILCA 조항 1: 규칙
(제 1 장에서 5 장까지 포함)

2019 년 01 월 01 일부터 유효하며 그 이전의 모든 규칙과 해석은 취소함.

최근 변경들:

2019/01/01

제 1 장에서 경기에 사용되는 모든 세일에는 클래스 규칙에 적합함을 명시하기 위해 ILCA 가 제공한 세일 버튼을 부착해야 한다로 수정

규칙 3(b)i 는 컨트롤라인에 대해 아라미드섬유로프 사용에 대한 제한을 삭제하는 것으로 수정

규칙 3(b)ii 는 테이퍼에 대한 특별한 제한이 있지 않은 경우에는 컨트롤라인 두께의 국부적 변화를 허용하도록 수정

규칙 3(b)vi 는 클램클리트를 관통식 구멍을 통한 부착이 가능하도록 수정

규칙 19(a)는 마스트 스텝의 마모튜브 또는 칼라가 분리된 조각으로 되어 있음을 명확히하기 위해 수정

규칙 31 은 규칙 투표 절차를 6 개월에서 1 개월로 단축하고 "우편으로 발송하는 투표"를 삭제하는 것으로 수정

2017/01/01

규칙 22: 컴파스, 전자장비와 시간장비 관련하여 GPS 기능이 없는 디지털 컴퍼스로의 변경을 허가함

새로운 규칙 28: 보트나 선체에 카메라 설치를 허가함

규칙 3(f)vi: 인홀쇼코드 부착점에 대한 제한을 없앰

규칙 17(c): 선체 또는 하이킹스트랩에 부착되지 않는 조건의 하이킹스트랩 부착점에 하나의 클리트와 하나의 전환 고리를 추가하는 것을 허가함

2016/01/01

4(f) 국가글자: MKII 세일의 글자위치 지침을 수정함

서문

레이저 클래스 규칙의 원칙은 클래스 규칙에 의해 특별히 허용되지 않는 한 보트 변경이 허용되지 않는다는 것이다. 레이저 규칙은 영문이 우선한다.

제 1 장

목 적

레이저는 경기에서 보트와 장비가 아닌 선수의 실력을 겨루는 엄격한 원디자인 딩기이다.

기본 규칙

레이저는 이 규칙에 따라 월드세일링에 등록된 레이저설계사양(건조규정)의 엄격한 준수하에 월드세일링과 국제레이저클래스협회(ILCA)가 승인한 제조사가 만든 선체, 장비, 부품, 스파, 세일, 배튼 만을 사용해 경기에 출전해야 한다.

본 규칙 제 2 장 또는 제 3 장에서 구체적으로 허용된 것을 제외하고, 제조사가 공급한 선체(선형), 건조방법, 장비, 장비의 종류, 장비의 배치, 부품, 부품의 종류, 부품의 배치, 스파, 세일 그리고 배턴에 변경나 수정은 허용되지 않는다.

선체 식별

모든 레이저들은 바우아이 아래의 데크 또는 트랜섬에 식별번호(세일번호 또는 고유제조번호)가 새겨져 있어야 한다.

세일번호 148200 부터의 레이저는 제조사가 ILCA 로부터 공급받은 고유의 월드세일링 명판이 부착되어야 한다. 명판에는 ILCA 에 의해 인정된 보트의 세일번호가 표시되고 제조사에 의해 콕핏 뒷면에 영구적으로 부착되어야 한다.

세일 식별

2001 년 1 월 1 일 이후 제조된 세일은 ILCA 에서 공급한 ILCA 공인세일메이커버튼을 세일택에 부착해야 한다. 스탠다드 MKII 세일에는 주황색 버튼이 있어야 하고 레이디얼, 4.7 및 스탠다드 MKI(크로스컷) 세일에는 빨간색 버튼이 있어야한다.

제조사의 정의

제조사란 월드세일링과 ILCA 에서 레이저 제조사로 승인되어지고, 건조규정의 엄격한 준수 하에 선체, 장비, 부품, 스파, 세일 그리고 배턴을 생산하는 레이저 상표 사용 권한을 가진 생산업자를 말한다.

제 2 장

1. 계측 다이아그램

계측 다이아그램도 클래스규칙의 한 부분이다. 스파, 세일, 배턴, 센터보드, 러더, 부품의 배치와 장비는 계측다이아그램과 일치해야 한다. 계측공차는 제조공차를 허용하기위한 것이지 설계를 변경하는데 사용되어져서는 안된다.

2. 계측

건조지침서에 적합하지 않다는 이의신청의 경우 그 문제와 관련된 모든 자료들을 첨부하여 월드세일링 기술위원과의 협의하에 최종 규칙을 확정하는 ILCA 계측위원장에게 보고 되어야 한다.

선체, 스파, 세일, 배턴, 센터보드, 러더, 리깅, 부품이나 장비의 종류와 위치에 관한 계측적 문제가 클래스규칙, 계측다이아그램, 계측규정에 의해 명시적으로 확인되지 않을 경우에는 다음 절차로 확인한다.

문제의 배를 제외한 열척의 샘플을 추출하여 같은 방법으로 계측한다. 문제된 보트의 치수는 이 열척에서 얻은 치수와 같거나 또는 최대치 또는 최소치에 사이에 있어야 한다. 문제된 보트의 치수가 이 범위를 벗어나는 경우에는 모든 관련 자료를 첨부하여 최종 판정을 내리는 ILCA 계측위원장에게 보고하이어야 한다. 샘플에 대해 계측된 치수가 정상적이지 않다면 클래스협회는 모든 관련 정보를 월드세일링에 보고하이어야 한다.

3. 컨트롤 시스템, 컨트롤 라인 및 부품

(a) 컨트롤 시스템의 정의

i 커닝햄, 아우트홀, 뱅, 트래블러, 매인시트는 컨트롤라인 시스템이다. 커닝햄, 아우트홀 그리고 뱅의 컨트롤 라인 시스템은 규칙 3(d)i, 3(e)i, 3(f)i 에서 허가된 대로 복수의 컨트롤라인으로 구성되어 있어도 좋다. 각각의 컨트롤 라인은 굵기와 재질이 균일한 한 가닥의 로프이어야 한다. 컨트롤라인 시스템 조절시에, 그 축이 되는 방향으로 움직이면 그 라인이 컨트롤라인이다. 오로지 부착을 위한 라인은 타이 라인이다.

ii 정의하기 위해, 표준 부품은 다음과 같다.

플라스틱 커닝햄 페어리드	
플라스틱 커닝햄 클램클리트	
플라스틱 아우트홀 클램클리트	뱅 클리트 블록
플라스틱 아우트홀 페어리드	뱅 키 블록
플라스틱 트래블러 페어리드	뱅 키
플라스틱 트래블러 클램 클리트	메인시트 블록

iii An **"Optional"** fitting is a fitting or block that replaces, or is additional to, a **Standard Fitting** as allowed by these Rules.

iv A **"Builder Supplied"** fitting replaces a **Standard Fitting**, and is supplied only by the Builder, as allowed by these Rules.

v A **"Turning Point"** is a sheave (pulley) in a block, a rope loop, a rope loop reinforced with a thimble, the outhaul fairlead, a shackle, part of a fitting, sail cringle, mast or boom around which a moving **Control Line** passes, **except that** the cunningham fairlead, the **"Optional"** blocks attached to the **"Builder Supplied"** deck block fitting, the cunningham clam cleat, and the **"Optional"** cam cleats attached to the **"Builder Supplied"** deck cleat base **will not be counted** as **"Turning Points"** in Rules 3(e)i and 3(f)i.

vi When an **"Optional"** block, or shock cord is **attached** to a fitting, line, mast, boom or the sail, it may be attached either with or without a shackle, clips, balls, hooks and/or a tie line.

(b) Control Lines and Fittings

i. Control lines shall be natural or synthetic rope.

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 and/or tape may be included anywhere on the free end of a control line.

x. The free ends of different control lines (except mainsheet) may be tied together and/or tied to any deck fitting or the centreboard, the centreboard handle or a rope loop used to attach a retaining line. Free ends of control lines shall not be tied to shock cord (except mainsheet).

xi. To secure the mast in the event of a capsize, a loose retention line or shock cord (that will allow 180 degree plus mast rotation) shall be tied/attached between the cunningham fairlead or the deck block fitting and the mast tang or gooseneck. Clips, hooks, shackles and balls may be used to attach the retention line.

xii Reference points (marks) may be placed on the deck, spars and ropes.

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

i. The mainsheet shall be a single line, and be attached to the becket of the aft boom block, and then passed through the traveller block, the aft boom block, boom eye strap, forward boom block and the mainsheet block. After the mainsheet block it shall be knotted, or tied, so that the end of the mainsheet cannot pull through the mainsheet block. The mainsheet shall not be controlled aft of the forward boom block except to facilitate a tack or gybe.

ii. The tail of the mainsheet may also be knotted or tied to either the base of the mainsheet block, the hiking strap, the hiking strap support line, or the hiking strap shock cord. This option, if used, satisfies the knotting requirement in 3(c)i.

iii. The mainsheet block may be replaced by any type of single block with or without an internal or attached jamming device, and mounted in the position shown on the measurement diagram. The block may be supported by a spring, ball, plastic tube or tape.

iv. One mainsheet clam or cam cleat of any type may be mounted on each side deck in the position shown on the measurement diagram.

(d) Vang – also see Rules 3(a) & 3(b)

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

ii. The vang cleat block shall be attached directly to the mast tang, or to an "Optional" swivel that shall be attached to the mast tang.

iii. A shackle may be used to attach the vang cleat block or the swivel to the mast tang.

iv. The swivel, shackle or swivel/shackle combination shall not exceed 80 mm in length when measured under tension.

iii "선택적" 부품이란 클래스규칙에서 허가된 대로 표준부품과 교환 또는 추가되는 부품이나 블록을 말한다.

iv "제조사공급" 부품이란 클래스규칙에서 허가된 대로 표준부품과 교환되고 오직 제조사만 공급하는 것을 말한다.

v "터닝 포인트"란 블록의 시브(도르래바퀴), 고리모양 로프, 고리모양 로프로 보강한 딤블, 아우트홀 페어리드, 셔클, 부품의 일부, 세일의 크링글, 마스트 또는 붐을 두르는 컨트롤 라인이 통과되는 곳이나, 예외로 클래스규칙 3(e)i 와 3(f)i 에서는 컨닝햄 페어리드와 "제조사공급"의 덱크 클리트 베이스에 부착된 "선택적" 캠클리트는 "터닝포인트"로 보지 않는다.

vi "선택적" 블록이나 쇽코드를 부품, 라인, 마스트, 붐 또는 세일에 부착하는 경우, 셔클, 클립, 볼, 혹, 타이 라인 유무에 관계없이 부착 되어 질 수 있다.

(b) 컨트롤 라인과 부품

i 컨트롤 라인은 천연 또는 합성 소재의 로프이어야 한다.

ii 컨트롤 라인은 하중이 걸리는 연결부에서의 스플라이스를 제외하고 일정한 굵기이어야 한다.

iii 두 가닥 이상의 컨트롤 라인이 허용되는 컨트롤 시스템에 지름이 서로 다른 라인을 이어서 사용해서는 안된다.

iv 커닝햄, 뱅 또는 아우트홀 컨트롤 시스템에서 허용되는 "선택적" 블록은 그 시브의 지름이 15mm 미만이나 30mm 이상이면 안된다. 컨닝햄, 뱅 그리고 아우트홀 컨트롤 라인 시스템에서 "터닝 포인트"로서의 고리모양 로프로 보강한 딤블은 그 길이가 40mm 를 넘으면 안된다.

v 싱글 또는 더블 블록만을 "선택적" 블록으로 사용해야 한다. 싱글 블록은 시브가 한 개, 더블 블록은 시브가 두 개인 블록을 의미한다. "선택적" 블록들은 베킷, 스위블, 셔클이 각각 한 개씩만 포함되어 질 수 있다.

vi 플라스틱 페어리드와 캠클리트는 같은 위치에 동일한 사이즈와 형상의 금속 제품으로 교체할 수 있다.

vii 플라스틱 컨닝햄 페어리드는 같은 나사구멍을 쓰는 위치에 스테인리스가 삽입된 같은 종류의 것으로 교체할 수 있다.

viii "제조사 공급의" 데크 부품들 (데크 블록 부품과 데크 클리트 베이스)

a) 컨닝햄 페어리드는 같은 위치에 한개 또는 두개의 "선택적" 싱글 블록이 부착된 "제조사 공급의" 데크 블록 부품으로 교체할 수 있다. "선택적" 블록을 커닝햄 페어리드에 부착해서는 안된다. 컨닝햄이나 아우트홀 컨트롤 라인을 데크 클리트와 연결하기 위해 쓸 수 있는 것은 커닝햄 페어리더 단독이거나 "선택적" 싱글 블록이 부착된 "제조사 공급의" 데크 블록 부품 뿐이다.

b) "선택적" 데크 블록은 한 개의 스프링, 볼, 플라스틱 튜브 또는 테이프로 지지할 수도 있다.

c) 컨닝햄 클램 클리트는 "선택적" 2 개 클램 클리트 (컨닝햄와 아우트홀)가 부착된 "제조사 공급의" 데크 클리트 베이스와 함께 같은 위치에 부착하되, 고정 구멍간 간격이 27mm 이어야 한다. 이 두개의 캠 클리트에는 출구 쪽으로 롤러 부착 여부에 상관없이 브리지나 페어리더를 부착할 수도 있다.

d) 컨트롤 라인은 커닝햄 페어리드, "제조사공급의" 데크 블록 부품과 그것에 부착된 "선택적" 블록, 커닝햄 클램 클리트 또는 "제조사 공급의" 데크클리트 베이스와 그것에 부착된 "선택적" 캠 클리트, 클리트 브리지나 페어리드 어느 것에도 매서는 안 된다.

ix 플라스틱이나 고무 튜브로 감싼 고리모양 로프 핸들은 그 핸들을 테이프로 말거나 컨트롤 라인 끝 부분에 만드는 것에는 어디라도 허용될 수 있다.

x 컨트롤 라인(메인시트 제외)들의 끝 부분은 서로 매거나 어느 데크 부품, 센터보드, 센터보드 핸들 또는 센터보드를 잡아주는 역할의 고리모양 로프에 맬 수 있으나, 쇽코드에 매어서는 안된다.

xi 전복시 마스트가 빠지지 않기 위한 쇽코드나 (마스트가 180 도 이상 회전 가능하게) 느슨하게 묶어놓은 라인은 컨닝햄 페어리더나 데크 블록과 마스트 탱 또는 구즈넥 사이에 연결 되어야 한다. 그 라인은 클립, 훅크, 셔클 그리고 볼 등을 부착하여 사용할 수 있다.

xii 데크, 스파, 로프에 표시(마크)를 해도 좋다.

(c) 메인시트 – 규칙 3(a), 3(b) 참조

i 매인 시트는 한 가닥 라인으로 붐 끝 블록의 베킷에 부착되어 트레블러 블록, 붐 끝 블록, 붐 아이 스트랩, 앞쪽 붐 블록, 메인시트 블록을 차례로 통과 하이어야 한다. 메인시트 블록을 통과한 라인은 메인시트 블록을 벗어나지 않도록 끝단을 매거나 매듭을 하이어야 한다. 택킹이나 자이빙을 돕기 위할 때가 아니면 메인시트를 앞쪽 붐 블록의 다음에서 조작하면 안된다.

ii 메인시트의 끝은 매듭을 하거나 메인블록 지지부, 하이킹 스트랩, 하이킹 스트랩 지지 로프 또는 하이킹 스트랩 쇽코드에 맬 수 있다. 이 선택적 사용시, 규칙 3(c)i 에서의 매듭에 관한 요구에도 만족한다.

iii 메인시트 블록은 내외장 재밍장치(움직임 방지장치)가 있는 어떤 타입의 싱글 블록이라도 계측다이아그램에 나와 있는 위치에 부착할 수 있다. 그 블록은 한 개의 스프링, 볼, 블라스틱 튜브 또는 테이프로 지지할 수 있다.

iv 메인시트용 클램 또는 캠 클리트는 어떤 타입이든 계측다이아그램에 나와 있는 위치인 양현에 설치할 수 있다.

(d) 뱅 – 규칙 3(a), 3(b) 참조

i 뱅 시스템은 마스트탱과 붐 키 사이에, 뱅 클리트 블록, 뱅 키 블록, 최대 2 가닥의 컨트롤 라인, 고리 모양이거나 또는 추가로 "최대 7 개의 터닝포인트"를 가진 "선택적" 블록들로 구성 되어야 한다.

ii 뱅 클리트 블록은 마스트 탱에 직접 붙거나 또는 마스트 탱에 부착되어야 하는 한 개의 "선택적" 스위블에 부착 되어야 한다.

iii 마스트 탱에 부착하기 위해 스위블 또는 뱅 클리트 블록에 한 개의 셔클을 사용할 수 있다.

iv 스위블, 셔클 또는 스위블/셔클 결합은 텐션을 걸었을 때(뱅을 당겼을 때)에 80mm 를 넘어서는 안 된다.

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)i.**

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)i.

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

v 뱅 키 블록은 예비의 한 개 키를 부착해도 된다.
vi 그 키는 곧거나 휘어 질 수 있으며, 벨크로나 고무밴드, 테이프로 제자리에 고정할 수 있다.
vii 뱅 키 블록은 "선택적" 한 개 키가 붙은 뱅 키 블록으로 교체해도 된다.
viii "선택적" 싱글 블록들은 뱅 클리트 블록에 있는 구멍에 볼트나 크레비스 핀(U 자형 고리)을 사용하여 뱅 클리트 블록 한쪽 또는 양쪽에 부착할 수 있다.
ix 마스트 탱 구멍은 굵은 핀이 들어 갈 수 있도록 가공할 수 있다.
x "제조사 공급의" 뱅 클리트 핏팅
a) 뱅 클리트 블록은 캠 클리트와 "터닝포인트"로 구성된 "제조사 공급의" 뱅 클리트 부품으로 교체할 수 있다. 아래 사진들은 클라스 규칙에 접합한 2 가지 "제조사공급의" 뱅 클리트 부품을 보여 준다.
b) 본 부품은 마스트 탱에 바로 연결되어야 한다.
c) 본 부품은 어떤 방법이든 개조 해서는 안 된다.

(e) 컨닝햄 – 규칙 3(a), 3(b) 참조

i 컨닝햄 시스템은 최대 3 가닥의 컨트롤 라인, "선택적" 블록 또는 로프의 루프를 위한 "터닝 포인트"는 최대 5 개이어야 한다.
ii 컨닝햄 컨트롤 라인은 마스트, 구즈넥, 마스트 탱, 마스트 탱에 뱅 클리트 블록 부착에 사용되는 셔클 또는 스위블, "제조사 공급의" 뱅 클리트 부품에 부착되는 커닝햄 또는 "제조사 공급의" 뱅에 있는 커닝햄 부착 지점위에 고정된 선택적 베킷이 붙은 블록의 베킷 어느 곳이든 확실하게 부착 되어야 한다. 컨닝햄 컨트롤 라인은 움직이는 라인으로서 세일 택의 크링글을 통과해야 한다. 세일 택의 크링글은 규칙 3(e)i 에 따라 최대 5 개의 "터닝 포인트"중 적어도 하나이어야 한다.
iii 추가 도르래를 위해 고리모양 로프, "선택적" 블록이나 붐, 세일 택 크링글, 구즈넥 부품, 마스트 탱, 뱅 클리트 블록 또는 스위블에 부착되는 셔클, 스위블, "제조사 공급의"의 뱅 클리트 부품에 커닝햄 부착 지점을 이용할 수 있다.
iv 데크 블록 부품 또는 데크 클리트 베이스 컨닝햄 컨트롤 라인은 커닝햄 페어리드 또는 "제조사공급의" 데크 블록 부품에 부착된 "선택적" 싱글블록 그리고 컨닝햄 클램 클리드 또는 "제조사 공급의" 데크 클리트 베이스에 부착된 "선택적" 캠 클리트를 한번만 통과 하이어야 한다.

(f) 아우트 홀 – 규칙 3(a), 3(b) 참조

i 아우트홀 시스템은 최대 2 개의 컨트롤 라인, "선택적" 블록 또는 로프의 루프를 위한 "터닝 포인트"는 최대 6 개이어야 한다.
ii 아우트홀 컨트롤 라인은 붐 끝, 아우트홀 페어리더, 세일 또는 쿽 릴리즈 시스템의 어느 것인가에 부착되어, 적어도 한번은 붐 아우트홀 페어리더를 통과하이어야 한다. 아우트홀 페어리더는 규칙 3(f)i 에 따라 최대 6 개의 "터닝 포인트"중 적어도 하나 이어야 한다.
iii 추가 도르래를 위해 라인상 고리모양 로프를 만들거나 또는 라인에 "선택적" 블록들을 부착 하거나 아우트홀 페어리더, 아우트홀 클램 클리트, 붐, 마스트 또는 구즈넥 부품을 이용할 수 있다. "선택적" 블록은 규칙 3(f)ii 에 충족되는 아우트홀 페어리드에 부착되어 질 수 있다. "선택적" 블록은 아우트홀 클램 클리트에 부착되어 질 수 있다.
iv "선택적" 블록은 세일의 크루나 쿽 릴리즈 시스템, 쿽 릴리즈 시스템의 한 부분으로 부착할 수 있다.
v 한 개 또는 두개의 "선택적" 블록들은 구즈넥 부품, "터닝 포인트"가 구즈넥 볼트 중심에서 100mm 이내가 되도록 마스트/구즈넥 접합부에 부착할 수 있다(구즈넥은 위아래를 거꾸로 해도 됨) 이 규칙의 블록들은 구즈넥 볼트 또는 핀에도 부착할 수 있다.
vi 크루에 세일을 끌기 위해 하나의 쇽코드를 사용할 수도 있다.
vii 쇽코드나 고리모양 로프(컨트롤 라인의 부분으로)를 아우트홀 라인이 붐에 가깝게 유지되기 위해 그 아우트홀 컨트롤 라인이나 붐 주위로 매달 수 있다.
viii 데크로 이어진 아우트홀 시스템
a) 데크로 이어지게 하는 경우, 그 아우트홀 컨트롤 라인은 컨닝햄 페어리드 또는 "제조사 공급의" 데크 블록 부품에 부착된 "선택적" 아우트홀 싱글 블록을 통과하고 "제조사 공급의" 데크 클리트 베이스에 부착된 "선택적" 캠 클리트를 통과해야 한다.
b) 붐 아우트홀 클램클리트는 제거할 수 없다.

(g) 클루 타이 다운(붐타이) – 규칙 3(a), 3(b) 참조

i 세일의 클루는 타이 라인이나 또는 세일 클링글을 통과하고 붐을 감싼 고정 장치 유무에 관계없는 단단한 끈, 타이 라인이나 또는 붐을 감싸는 부드러운 스트랩이 부착된 쿽 릴리즈 시스템, 또는 쿽 릴리즈 시스템과 함께 "제조사 공급의" 스테인리스제 붐 슬라이드 중 어느 하나에 의하여 붐에 부착 되어야 한다. 세일 크루와 쿽 릴리즈 시스템 또는 아우트홀 과의 사이를 넓히는 한 가닥의 타이 라인을 추가할 수 있다.
ii 클루 타이 다운(붐타이)이 타이 라인인 경우, 마찰을 줄이기 위한 튜브나 구멍 뚫린 볼을 통과해도 된다.((h) 트래블러 – 규칙 3(a), 3(b)도 참조
i 트래블러는 한가닥 라인이어야 한다. 트래블러 라인은 트래블러 아이를 거친 단일의 닫힌 루프로서 트래블러 클리트를 지나는 끝단으로 설치되어야 한다.
ii 트래블러 블록 사이에 스프링, 볼이나 테이프를 사용할 수 있다.

4. 세일번호, 국가글자, 국기
(레이저 레이디얼과 레이저 4.7 의 세일번호 부착 위치는 제 4 장의 규칙 29(e)와 30(e)를 참조할 것)

(a) 세일번호 148199 까지의 레이저 세일번호는 바우 아이 아래 데크위 또는 안쪽 트랜섬 또는 콕피트 뒷면에 부착된 명판에 각인되어져 있다. 세일번호 148200 이후의 레이저 세일번호는 콕피트 뒷면에 부착된 윌드세일링 건조 명판에 표시되어 있다.

(b) 모든 세일번호는 최소 크기와 위치, 글자체에 관해서는 본 규칙에 의해 지정된 내용이 아니면 세

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:

i. when the hull and/or sail are provided by the organisers for an event and after approval of the International Laser Class Association, the numbers on the sail used for that event only may be single, double or triple digit numbers.

ii. in the case of a Laser borrowed or chartered for a specific event, and after written approval from the Race Committee, a competitor may use a sail with numbers that are different to the sail number allocated to the hull. The sail number used shall be the sail number allocated to the competitor's own Laser. When the competitor does not own a Laser, the number used on the sail shall be the number of the Laser chartered.

iii. when a sail is damaged during a series and Rule 7 (c) applies the sail number may contravene Rules 4 (a) and (e) ii only when written permission for a sail number change is given by the Race Committee.

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

The letters on the starboard side of the *MKI* sail shall be placed along the top edge of the seam below the bottom batten pocket (+ or - 12mm), for the *MKII* 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**

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

a. World or regional (continental) championships.

b. Events described as "international events" by the Notice of Race or Sailing Instructions.

c. Other events that prescribe in the Notice of Race or Sailing Instructions that women competitors should be identified.

ii. The minimum size and approximate position shall comply with diagram on page 36.

iii. 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.

일링경기규칙(RRS)을 따라야 한다:

- 높이 300mm
- 너비 200mm (숫자 1 을 제외하고)
- 굵기 45mm
- 인접한 숫자와의 간격 50mm
- 세일번호들은 일정한 간격을 유지해야 한다.
- 스타보드쪽 세일번호는 포트쪽보다 위에 위치해야 한다.
- 세일번호의 숫자는 각각 한가지 색깔이어야 한다.
- 세일번호는 읽기 쉽도록 명료해야 한다.
- 1998 년 3 월 1 일 이후 – 세일번호와 국적글자는 오직 붙이는 식이어야 한다. 세일 위에 국적 글자와 번호를 매직펜 따위로 영구적으로 표시하는 것은 금지된다.

(c) 153000 넘어가는 세일번호와 1993 년 6 월 1 일 이후 구입된 세일의 번호는 세일 양면에 붙이든가 재봉질되어 스타보드 쪽 세일번호의 아래쪽은 중간 배턴포켓의 솔기와 평행이거나 또는 400(±12)mm 아래에 그은 직선을 따라 있어야 한다. 포트쪽 세일번호 아래쪽은 스타보드쪽 세일번호 아래쪽과 평행하거나 400(±12)mm 아래에 그은 직선위에 있어야 한다. 스타보드쪽 세일번호는 리치에서 100(±12)mm 위치에서 시작하고 포트쪽의 세일번호는 리치 에서 100(±12)mm 위치에서 끝나 있어야 한다.

(추가 가이드는 46~49 쪽의 도면과 함께 45 쪽 세일번호 부착 지침서를 볼 것)

(d) 세일번호 131000 이후의 세일, 1993 년 6 월 1 일 이후 구입된 세일 및 "New Number"의 스템프가 찍힌 세일은 명료하게 보이도록 세일번호의 마지막 4 행은 짙은 어두운 색 또는 검정으로 하고, 그 앞의 2 행은 대조되도록 짙은 다른 색(빨간색 추천됨) 이어야 한다.

(e) 이 클래스 규칙은 다음의 예외를 인정한다.

i 주최자에 의해 선체나 세일을 공급하는 ILCA 인가된 대회인 경우, 그 대회에 한하여 1 행, 2 행 또는 3 행의 숫자로 세일번호로 사용할 수 있다.

ii 대회에서 레이저를 빌리거나 차터한 특별한 경우에서 경기위원회로부터 서면 허가를 득한 후 선체의 세일번호와 다른 세일번호의 세일을 사용할 수 있다. 그 세일번호는 경기자 자신이 소유하는 레이저의 세일번호이어야 한다. 경기자 자신 소유의 레이저를 소유하지 않는다면, 차터한 레이저 세일번호를 사용해야 한다.

iii 시합 기간동안 세일이 손상되어 규칙 7(c)가 적용되는 경우, 경기위원회로부터 서면으로 세일번호 변경 허가가 있으면 세일번호는 규칙 4(a) 및 4(e)ii 를 위반 할 수 있다.

(f) 국적글자가 요구되는 경우, 글자체, 굵기, 간격이 세일번호요구조건들과 같아야하고(규칙 4(b),(c),(d) 및 (e) 참조) 다음의 위치이어야 한다.

MKI 세일의 스타보드쪽 글자는 보텀배튼포켓(±12)의 아래쪽 솔기의 윗 부분을 따라서 부착하고, MKII 세일은 보텀배튼포켓 아래로 400mm(±12) 위치인 베이스라인 위에, 그리고 스타보드쪽 글자 아래로 400mm(±12) 위치에 따라 평행하게 포트쪽 글자를 부착해야 한다. 스타보드쪽 글자는 리치에서 100(±12)mm 위치에서 시작하고 포트쪽 글자는 리치에서 100(±12)mm 위치에서 끝나야 한다. 글자들은 모두 같은 색깔로 세일번호 색깔 중 하나이거나 대조가 되는 다른 색깔이어야 한다. (Page 52-55 도면 참조)

세계선수권, 대륙지역선수권 및 대회공고나 세일링세칙에 국제대회라는 것을 명시한 대회에서는 국적글자를 붙이는 것이 요구되어야 한다. 그 이외의 대회에서 대회공고나 세일링세칙에 따라국적글자가 요구되는 경우가 있다.

(g) 빨간색 마름모 마크

i 다음의 여자대회에 사용되는 세일은 양쪽 탑배튼포켓 위로 빨간색 마름모 마크를 달아야 한다.
a. 세계선수권 또는 지역(대륙)선수권
b. 대회공고나 세일링세칙에 "국제대회"라고 명시한 대회
c. 그 이외에서 대회공고 또는 세일링세칙에 여자 경기자를 구별하는 것을 명시한 대회

ii 최소 사이즈와 대략적인 위치는 36 쪽 도면을 따라야 한다.

iii 마름모 마크는 다른 대회에서도 사용할 수 있다.

(h) 국기

대회공고나 세일링세칙에서 요구하는 경우 공식 규격 567x337mm 의 국기는 세일 양쪽에 부착해야 한다. 스탠다드와 레이디얼의 국기는 세일번호와 보텀배튼 사이, 리치로부터 100 에서 150mm 이내에 국기끝이 위치해야한다. 국기는 세일번호와 글자에 평행하게하고 번호와 겹치면 안된다. 4.7 은 리치로부터 100 에서 150mm 이내에 위치하되 보텀배튼포켓 아래로 50mm 이내에 위치해야한다. 국기는 세일과 다른 재질에 인쇄되어 부착돼야 한다. 잉크펜 같은 걸로 국기를 그리는 것은 금지된다. 국기는 국적글자와 일치해야 한다.

5. 마스트

영구적으로 휘어진 마스트는 어떤 경우에도 사용해서는 안 된다.

6. 복장와 장비

(a) RRS43.1(b) 변경하여 선수의 복장와 장비의 최대 중량은 9kg 이다. (레이디얼과 4.7 의 리그에 관해서는 제 4 장을 참조할 것)

(b) 선수는 신체보호를 위한 세일링복장를 제외하고 총중량 500g 이 넘는 부력없는 복장이나 장비를 착용하거나 소지해서는 안된다.

(c) RRS 부칙 H 에 따라 복장이나 장비의 계량을 위해 거치대 대신에 3 개의 옷걸이를 사용해도 된다.

7. 세일링 요구사항

(a) 레이저는 1 인승 또는 2 인승으로 경기에 출전할

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 capsize. 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

수 있다. 2 인승 경기는 스키퍼의 변경없이 전체 경기 또는 시리즈 경기의 전부를 치루어야 한다.

(b) 경기 중 스키퍼 또는 크루의 어느 부분도 마스트보다 앞으로 위치해서는 안된다.

(c) 세일

경기위원회로부터 서면허가없이 시리즈 중에 세일을 교환해서는 안된다. 서면허가는 수리불능의 손상상태 또는 시리즈 경기에서 다음 경기 시작 전까지 수리가 불가한 손상이 발생된 경우에 한해 주어진다. 세일을 교환한 경우 손상된 세일이 수리되더라도 같은 시리즈에서는 사용할 수 없다. 이 규칙에서 시리즈란 득점으로 합산되는 2 개 이상의 경기를 말한다.

8. 선체 코팅

선체표면 경계층의 성질을 바꿀 가능성이 있는 용해성 도료를 선체표면에 사용해서는 안된다.

9. 클래스협회 회원

선수 중 한사람이라도 ILCA 의 현회원이 아니면 플리트, 인터플리트, 지역, 기타 공인대회의 레이저 종목에 출전할 수 없다. (대한체육회 등록 요트선수, 한국레이저요트협회 회원은 ILCA 회원임)

10. 광고

광고는 선수를 포함하여 윌드세일링 규정 20 광고 코드에 따라 허가된다. 광고는 세일윈도우를 제외하고 그래픽 재질에 대한 제한은 없다. [윌드세일링 규정 20: http://www.sailing.org/documents/regulations/regulations.php]

제 3 장

제 1 장과 제 2 장의 선택적 사항 및 예외사항

11. 선체 마감

(a) 선체 왁싱, 광택, 고운 습건식 샌딩은 의도와 효과가 선체의 광택만을 위한 것이면 허용한다. 형상 불량을 없애기 위한 광택/샌딩은 금지된다.

(b) 선체를 가볍게하거나 성능, 마감, 재질, 형상을 향상시키기 위한 의도 또는 효과로 선체를 샌딩 및 피니싱하는 것은 허용되지 않는다.

12. 트랜섬 드레인 마개

선미 드레인마개와 거전을 선으로 연결해도 된다.

13. 셀프베일러

제조사 공급의 셀프베일러만 추가할 수 있다. 선체와 연결되는 모서리, 나사구멍에 테이프, 충진재 또는 접착재로 씰링할 수 있다. 베일러면과 맞추기 위한 나사구멍 충진은 허용한다. 베일러의 면을 선체에 맞추거나 옆쪽 모양을 수정하는 것은 금지한다. 셀프베일러의 드레인마개는 제거할 수 있으며 셀프베일러 핀은 접착테이프로 선체바닥에 고정할 수 있다. 제조사공급 O 링은 베일러의 기본기능이 바뀌지 않는다면 대체할 수 있다.

14. 센터보드

(a) 센터보드 스톱의 아래로부터 센터보드의 상단과 평행하게 그은 선 위로 최대 12.5mm 직경의 두개 이하의 홀을 연결하는 한 개의 로프핸들은 허용된다. 센터보드의 핸들로 플라스틱/고무튜브 또는 테이프를 사용할 수 있다.

(b) 센터보드의 뒷날은 뒷날끝에서 100mm 안쪽의 날개면을 샌딩하여 날카롭게 할 수 있다. 단, 앞날과 뒷날간의 거리가 줄면 안된다.

(c) 센터보드의 표면 재마감은 원래의 형상, 두께, 특성이 바뀌지 않는다면 허용된다.

(d) 두께 2mm 이하, 30X30mm 이하의 크기를 가진 한겹짜리 패드를 센터보드케이스의 상단앞쪽 코너에 붙일 수 있다. 패드를 센터보드케이스 형상에 맞추어 수직으로 자르는 것은 허용한다.

(e) 원래 목재 센터보드가 아닌 보트에는 목재 센터보드를 사용해서는 안된다.

(f) 타이라인 또는 쇽코드는 캡사이즈때 센터보드 유실을 막기위해 센터보드의 앞쪽상단 코너의 작은 구멍과 바우아이, 커닝햄 페어리더, 제조사에 의해 제공된 데크블록부품과 마스트 중 어떤 것에라도 연결해야 한다. 타이라인 또는 쇽코드는 선수주변을 돌려서 연결할 수는 있으나 거널에 부착해서는 안 된다. 쇽코드의 경우 매듭이나 루프, 타이라인, 셔클, 클립, 후크 또는 아이 등으로 부착할 수 있다. 바우아니에 쇽코드는 제조사의 데크블록 피팅이나 커닝엄페어리더를 통과하여 부착할 수 있다.

(g) 제조사의 센터보드 스토퍼의 부품들은 원래의 형상과 규격이 작아지지 않는다면 접착제, 나사, 볼트/너트, 와셔로 부착할 수 있다.

15. 러더

(a) 러더블레이드의 의 뒷날은 뒷날끝에서 60mm 안쪽의 날개면을 샌딩하여 날카롭게 할 수 있다. 단, 앞날과 뒷날간의 거리가 줄면 안된다.

(b) 러더블레이드의 표면 재마감은 원래의 형상, 두께, 특성이 바뀌지 않는다면 허용된다.

(c) 러더블레이드, 러더헤드의 구멍들은 직경 10mm 까지 키울 수 있다. 러더볼트와 부쉬세트는 이 구멍에 맞게 큰 볼트로 대체할 수 있다. 볼트헤드, 너트와 와셔의 직경은 20mm 이내이어야 한다.

(d) 러더헤드의 밑쪽 모서리에 대해 최대 78 도의 러더 각도를 얻기 위해 블레이드의 앞날 간격핀이 닿는 곳을 절단할 수 있다.

(e) 러더헤드의 밑쪽 모서리에 대해 최대 78 도까지만 러더 각도를 허용하기 위해 아래 앞쪽 간격핀을 테이프로 감을 수 있다.

(f) 러더헤드를 들어올려서 틸러가 트랜섬 데크에 닿지 않도록 러더핀틀에 스페이서를 부착해도 된다.

(g) 러더 다운홀 라인은 여러번 지레돼도 된다.

(h) 러더의 분실을 방지하기 위해 러더 핀틀 끝에 구멍을 뚫어 핀 또는 클립을 삽입할 수 있다.

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.

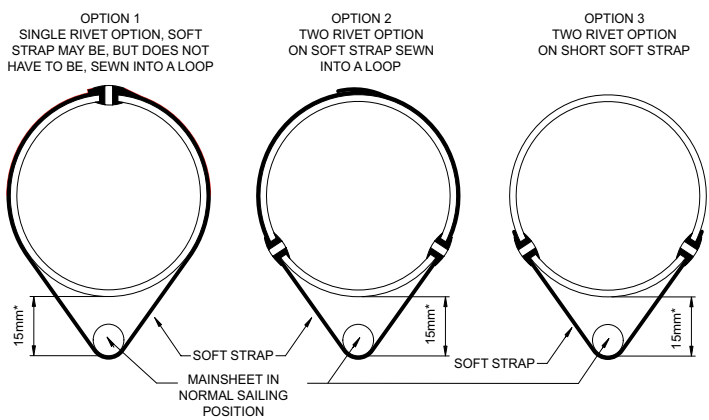
(b) The mast or mast cavity may be lubricated.

(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

Diagram for Rule 18(b)

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

(i) 원래 목재 러더가 아닌 보트에는 목재 러더를 사용해서는 안된다.

(j) 세일링세칙에 언급되지 않는 한 러더는 1.5m 이하 수심에서 레이싱할 때 말고는 완전히 내린 상태를 유지하여야 한다.

(k) 러더블레이드와 헤드 사이의 틈에 균일한 두께의 패드를 붙일 수 있다. 패드는 러더헤드와 접촉하는 러더블레이드 부분을 완전히 덮어야 한다. 러더블레이드와 패드의 두께는 20.3mm 를 넘어서는 안된다.

16. 틸러

(a) 틸러와 틸러 익스텐션은 아래의 경우를 제외하고 어떠한 제한도 받지 않는다.

i. 틸러는 러더헤드로부터 분리되어질 수 있어야 한다.

ii. 틸러에는 다운홀을 묶기 위한 클리트, 후크, 핀 또는 아이가 설치되어야 한다.

iii. 틸러는 트래블러 로프에 의한 정상적인 마모를 제외하고는 러더헤드의 앞쪽모서리 30mm 지점과 틸러의 콕핏방향 끝 사이의 가장 윗쪽 가장자리를 따라 직선이어야 한다.

(b) 틸러에는 16(a)iii 에 의해 요구되는 직선 모서리의 높이보다 위쪽에 200mm 이하의 길이를 가진 "내마모성" 스트립 또는 튜브를 트래블러와 틸러가 교차되는 지점에만 부착 할 수 있다.

(c) 틸러 고정핀 사용은 선택사항이다.

17. 하이킹스트랩

(a) 하이킹스트랩은 비신축성 재질의 어떠한 타입으로도 대체되어질 수 있고 패딩 처리 될 수 있다.

(b) 하이킹스트랩은 메인시트블록 플라스틱 누름판 주위로 감싸거나 메인보드 마찰 부착판과 메인시트블록 플라스틱 누름판을 사용하여 콕핏 전단에 고정시킬 수 있다.

(c) 하이킹스트랩의 후미 끝과 콕핏의 후미면에 있는 아이스트랩 사이의 하이킹스트랩 지지라인은 하이킹스트랩이 고정되거나 조절 가능하도록 설치될 수 있으며, 하나의 클리트, 링, 심블 또는 셔클 또는 두가지를 포함 할 수 있다.

(d) 쇽코드는 하이킹스트랩의 후미 끝과 트래블러 클리트 또는 콕핏 후미의 하이킹스트랩 아이스트랩 사이에 부착 할 수 있다.

18. 붐

(a) 최대 길이 900mm 의 제조사가 공급하는 금속 슬리브가 붐 내부에 고정될 수 있다. 슬리브는 붐의 프론트엔드에서(플러그 포함) 1220mm 지점의 뒤쪽까지 연장되어서는 안된다.

(b) 붐에 있는 두 블록 사이의 스테인레스스틸 메인시트아이스트랩은 부드러운 스트랩으로 교체 될 수 있다. 부드러운 스트랩의 최대 너비는 26mm 이다. 부드러운 스트랩은 아래 그림과 같이 제조사가 뚫은 홀 들을 사용하여 붐에 고정해야 한다.

(c) 트래블러와 붐에 설치된 메인시트블록은 제조사가 공급한 사진과 같은 블록들로 교체할 수 있다.

19. 마스트

(a) 마스트스텝의 마모를 방지하기위해 1mm 를 넘지 않는 균일한 두께의 튜브나 칼라가 하부마스트 또는 마스트스텝 하단 전체 주위나 마스트 스텝 캐비티 전체 둘레에 설치될 수 있다. 튜브 또는 칼라는 데크레벨 위 10mm 를 넘지 않아야 한다. 또한 1mm 를 넘지않는 균일한 두께의 디스크가 마스트스텝 밑에 설치될 수 있다.

(b) 마스트 또는 마스트캐비티는 윤활할 수 있다.

(c) 견고한 결합을 위해 플라스틱엔드캡, 상단마스트의 칼라 및 상단마스트에 테이프 또는 다른 부싱소재를 사용할 수 있다. 테이프 또는 부싱소재는 실제로 하단섹션 안쪽, 상단마스트와 칼라 사이로 미끄러져 들어가게 플라스틱부분에만 사용될수 있으며, 둘레가 균일한 두께로 되어야 한다. 칼라를 마스트에 넣을 수 있도록 칼라 위의 테이프 또는 부싱소재는 금지된다.

(d) 연결부에서의 마스트 섹션의 회전을 방지하기 위해 연결부의 바깥쪽에 연결부의 위, 아래로 40mm 까지 테이프를 사용할 수 있다.

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 approveed 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

20. 검사용 포트

나사식 해치커버로 닫아 물이 들어가지 않게 밀폐할 수 있다면 선체 내부로 접근하기 위한 내경 153mm 이하의 검사용 포트를 데크 또는 콕핏 안쪽에 설치할 수 있다. 해치커버 안에 보관백을 둘 수 있다.

21. 클립과 수납백

데크, 콕핏 내부, 마스트 또는 붐 주위에 물품을 보관하거나 안전을 확보하기 위해 클립, 타이, 백을 사용할 수 있다.

22. 나침반, 전자장비 및 시계

(a) 데크 또는 콕핏에 한 개의 나침반 설치가 허용되나 선체에 구멍을 뚫어 설치해서는 안된다. 나침반을 검사용 포트에 설치해서는 안된다. 손목에 차는 나침반 추가는 된다. 자성만 사용하고 독립 전원을 가진 전자식 디지털 나침반은 허용된다.

(b) 타이밍 장치(시계)는 허용된다.

(c) 시계 및 전자식 나침반은 하나로 통합될 수 있다.

(d) 나침반 또는 타이밍 장치는 풍속, 풍향, 보트속도 또는 보트위치에 대한 정보를 표시, 전달, 전송, 수신, 계산, 비교 또는 저장할 수 없어야 한다.

(e) 규칙에 허용이 명시되지 않은 전자장비의 사용은 세일링세칙에 의해 변경되지 않는 한 금지된다.

23. 풍향계

(a) 풍향계는 세일을 자르지 않고 선체, 마스트의 부력에 영향이 없다면 부착할 수 있다.

(b) 리본, 울 또는 유사한 재질의 텔테일은 세일에 부착할 수 있다.

24. 테이프와 라인

접착테이프 또는 라인으로 셔클핀, 클립을 고정하고 시트, 컨트롤라인 및 리깅을 묶을 수 있다. 단, 테이프 또는 라인을 사용하여 새로운 부품을 만들거나 기존 부속품의 기능을 변경할 수는 없다.

25. 안전장비

안전을 목적으로 국제, 국가 또는 기타 운영기관이 요구하는 장비의 추가는 기본규칙을 위반하지 않는다면 장치되거나 배에 실을 수 있다.

26. 수선 및 유지보수

(a) 세일, 선체, 갑판, 센터보드, 러더, 마스트, 붐, 모든 부품 및 고정장치에 대한 수리 및 예방조치가 필수적인 형상, 특성 또는 원래기능에 영향을 주지 않는다면 본 규칙에 위배되지 않는다.

(b) 부품이 파손되거나 규칙에 따라 교체된 경우 부품이나 교체품은 원래와 같은 종류여야 하며 계측 다이어그램을 따라 배치되어야 한다.

(c) 예방조치에는 고정장치(나사, 볼트, 너트, 와셔 및 리벳)의 교체가 포함되나 부품의 기능이 변경되지 않아야 한다. 계측 다이어그램의 허용오차가 부품의 위치를 변경하는 데 적용되어서는 안된다. 또한 스파를 뒤집어 사용하는 것은 허용되나 계측 다이어그램에 맞추어 부품이 교체되어야 하며 마스트 상단의 구멍은 마스트부력을 유지하기 위해 리벳 또는 유사한 재료로 완전 수밀되어야 한다.

(d) 세일패널과 러프슬리브는 교체되지 않아야 한다.

(e) 손상되거나 제거된 부력체(발포블록, 공기통)는 원래의 부력체와 같은 부피이고 공기가 완충된 제조사 공급 공기통으로 교체해야 한다.

(f) 윤활제는 거널 아래 선체를 제외하고는 사용에 제한이 없다.

27. 리핑

세일을 마스트에 한, 두번 감아 리핑할 수 있다.

28. 카메라 설치

카메라를 선수의 몸이나 보트에 부착할 수 있으나 선체에 구멍을 뚫어 설치해서는 안된다.

제 4 장

레이디얼과 4.7 리그의 선택사항

제 4 장은 본 규칙의 나머지 부분과 같이 보도록 한다. 레이디얼 또는 4.7 리그를 사용하는 경우 제 4 장에서 특별히 명시되지 않은 경우 제 1, 2, 3 및 5 장의 규칙이 적용된다.

29. 레이저 레이디얼

(a) 승인제조사가 공급한 레이디얼 세일 및 하단마스트는 이 규칙의 계측다이어그램과 일치해야 한다.

(b) 모든 리가타는 29(c)의 조건을 만족하거나, 대회공고 및 세일링세칙에서 명시하면 레이디얼리그를 사용할 수 있다.

(c) 지역대회 및 상위 레벨의 레가타에서는 대회공고 및 세일링세칙에 명시하여야 레이디얼 리그를 사용할 수 있다.

(d) 대회 시리즈 중에 레이디얼 리그를 스탠다드 또는 4.7 리그로 변경해서는 안된다. 시리즈란 득점으로 합산되는 2 개 이상의 경기를 말한다.

(e) **세일번호 및 국가글자**

규칙 4(c)와 (f)는 아래와 같이 변경한다:

4(c) 번호가 153000 이상이고 1993 년 6 월 1 일 이후에 구입한 레이디얼 세일의 세일번호는 세일의 각 측면에 접착되거나 바느질되어야 하며 세일의 스타보드 쪽 번호의 하단은 가운데 배튼포켓과 평행하게, 가운데 배튼포켓 하단 400mm (±12mm) 아래에 위치되어야 한다. 세일의 포트 쪽 숫자의 하단은 세일의 스타보드 쪽 숫자의 하단과 평행하여야하며 400mm(±12mm) 아래의 선 위에 있어야 한다. 스타보드 쪽 세일번호는 리치에서 100mm(±12mm)에서 시작하고, 포트 쪽 번호는 리치에서 100mm(±12mm) 에서 끝나야 한다. *(추가적인 가이드는 세일번호 적용지침 p.45 및 다이어그램 pp.46~47 을 참조)*

4(f) 국가글자가 필요하다면 세일번호와 종류, 크기, 간격과 요구사항들이 같아야 한다(규칙 4(b), (c), (d)와 (e)를 참조하여, 아래와 내용 같이 위치되어야 한다(다이어그램 참조):

세일의 스타보드 쪽에 있는 글자의 상단은 하단의 배튼포켓의 아래끝과 그 연장(+12mm)에 놓

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.

여야한다. 스타보드쪽 글자들은 리치에서 100mm(±12mm)에서 시작되어야 한다. 포트 쪽에 있는 글자의 하단은 400mm(±12mm) 아래의 선 위에, 세일의 스타보드 측에 있는 글자의 하단과 평행을 이루어야 한다. 포트 쪽 글자는 리치에서 100mm(±12mm)에서 끝나야 한다. 글자는 모두 같은 색이어야 하며 세일번호 중 하나와 색이거나 아예 다른 색이어야 한다. 국가글자는 세계선수권대회, 지역선수권대회 및 대회공지 또는 세일링세칙에 국제대회로 명시된 경우 필수이다. 국가글자는 어느 대회이던 대회공지 또는 세일링세칙으로 요구할 수 있다.

(f) **복장 및 장비**

규칙 6(a)는 아래와 같이 변경한다:

6(a) RRS43.1(b)의 목적에 따라 선수의 복장와 장비의 최대중량은 9kg 이다.

30. 레이저 4.7

(a) 승인제조사가 공급한 4.7 세일 및 하단마스트는 이 규칙의 계측다이어그램과 일치해야 한다.

(b) 모든 리가타는 29(c)의 조건을 만족하거나, 대회공고 및 세일링세칙에서 명시하면 4.7 리그를 사용할 수 있다.

(c) 지역대회 및 상위 레벨의 레가타에서는 대회공고 및 세일링세칙에 명시하여야 4.7 리그를 사용할 수 있다.

(d) 대회 시리즈 중에 4.7 리그를 스탠다드 또는 레이디얼 리그로 변경해서는 안된다. 시리즈란 득점으로 합산되는 2 개 이상의 경기를 말한다.

(e) **세일번호**: 규칙 4(b), 4(c) 및 4(f)는 아래와 같이 변경한다.

4(b) 4.7 세일의 모든 숫자는 세일링경기규칙(RRS)을 따라야 하며 다음의 최소 치수를 가져야 한다:
- 높이 220mm
- 너비 150mm, 숫자 1 제외
- 굵기 30mm
- 참고: 옵티미스트규칙의 번호크기와 같음
- 최대 높이 240mm
- 인접한 숫자/글자 사이, 행간격은 최소 30mm
- 세일번호 간격은 균일하여야 함
- 스타보드 쪽의 번호는 포트 쪽보다 위에 위치
- 각 숫자는 한가지 색이어야 함
- 색이 채워져 있어야 하며, 읽기 쉬워야 한다.

4(c) 세일번호가 153000 을 넘고 1993 년 6 월 1 일 이후에 구입한 4.7 의 세일번호는 세일의 양쪽에 접착되거나 바느질되어져야 한다. 스타보드 숫자의 하단은 중간 배튼포켓의 하단 아래의 솔기와 평행하게 270mm(±12mm) 아래에 배치된 선의 상단 끝을 따라 배치되어야 한다. 포트 쪽 번호는 스타보드 쪽 숫자의 하단에 평행해야 하고 270mm 아래의 선을 따라 배치 되어야 한다. 스타보드 쪽 번호는 리치에서 100mm(±12mm) 지점에서 시작해야 하며 포트 쪽 번호는 리치에서 100mm(±12mm)에서 끝나야 한다. *(추가 가이드는 세일번호 적용지침 p.45 와 다이어그램 pp.46~49 참조)*

4(f) 국가글자가 필요하다면 4.7 세일번호와 종류, 크기, 간격과 요구사항들이 같아야 한다. (규칙 29(e) 4(b) 참조) 세일번호가 190000 으로 시작되고 2006 년 4 월 1 일 이후에 구입한 레이저 4.7 세일의 경우, 스타보드 쪽 글자 하단은 리치에서 100mm(±12mm)에서 시작하고 포트 쪽 숫자의 하단과 평행하게, 270mm(+12mm) 아래의 선을 따라 배치되어야 한다. 포트 쪽 글자의 하단은 스타보드 쪽 글자의 하단과 평행하게, 270mm(+12mm) 아래의 선을 따라 배치되고 리치에서 100mm(±12mm)에서 끝나야 한다.

2006 년 4 월 1 일 이전에 구입한 190000 미만의 번호를 가진 4.7 세일의 경우 세일의 반대편에 있는 포트 쪽 번호의 하단과 평행하게, 270mm 아래에 있는 선을 따라 또는 위에 배치할 수 있다. 포트 쪽의 글자는 스타보드 쪽에 있는 것보다 더 리치에 가까워야 하며 포트 쪽 글자는 리치에서 100mm(±12mm)에서 끝나야 한다.

국가글자는 세계선수권대회, 지역선수권대회 및 대회공지 또는 세일링세칙에 국제대회로 명시된 경우 필수이다. 국가글자는 어느 대회이던 대회공지 또는 세일링세칙으로 요구할 수 있다. 글자는 모두 같은 색이어야 하며 세일번호 중 하나와 색이거나 아예 다른 색이어야 한다.

(f) 마스트: 규칙 5 는 아래와 같이 변경한다.

5 레이저 4.7 하단마스트는 약 5 도 정도의 후미방향으로 프리벤드된 상태로 공급된다. 프리벤드는 증가되거나 감소될 수 없다. 영구적으로 구부러진 상단 마스트는 어떤 경우에서든 사용되어서는 안된다.

(g) 복장 및 장비: 규칙 6(a)는 아래와 같이 변경한다.

6(a) RRS43.1(b) 변경하여 선수의 복장와 장비의 최대중량은 8kg 이다.

제 5 장

31. 개정

이 규칙의 개정은 다음의 승인을 각각 받아야 한다:

(a) the World Council

(b) the Advisory Council

(c) 국제클래스사무국에 의해 게시된 우편 투표에 응하여 국제클래스사무국에 서면으로 회신하는 회원의 3 분의 2 이상. 규칙 변경 게시일로부터 6 개월 이내에 국제사무국에 우편투표가 회신된 경우에만 유효.

(d) 윌드세일링.

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).

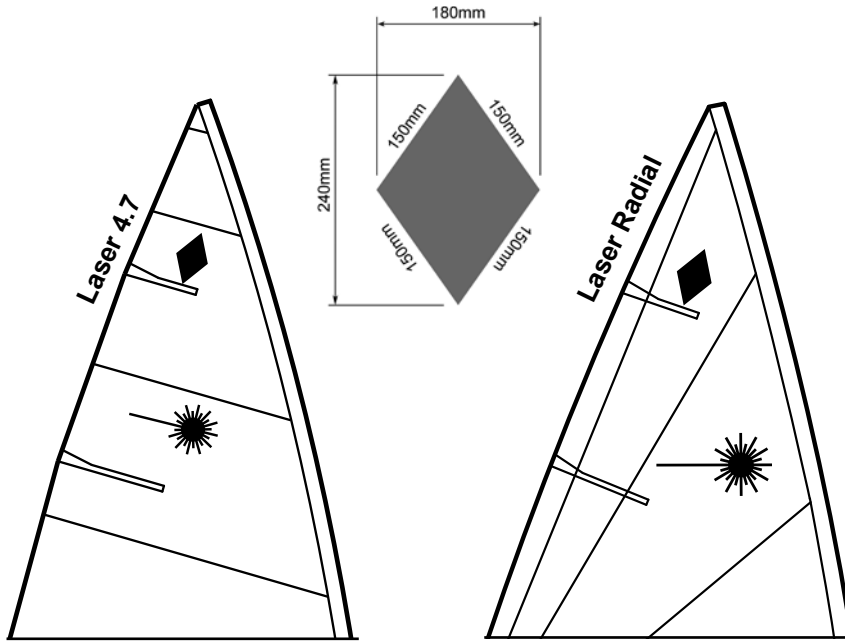
Instructions for Applying Red Rhombus For Women's Events

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.

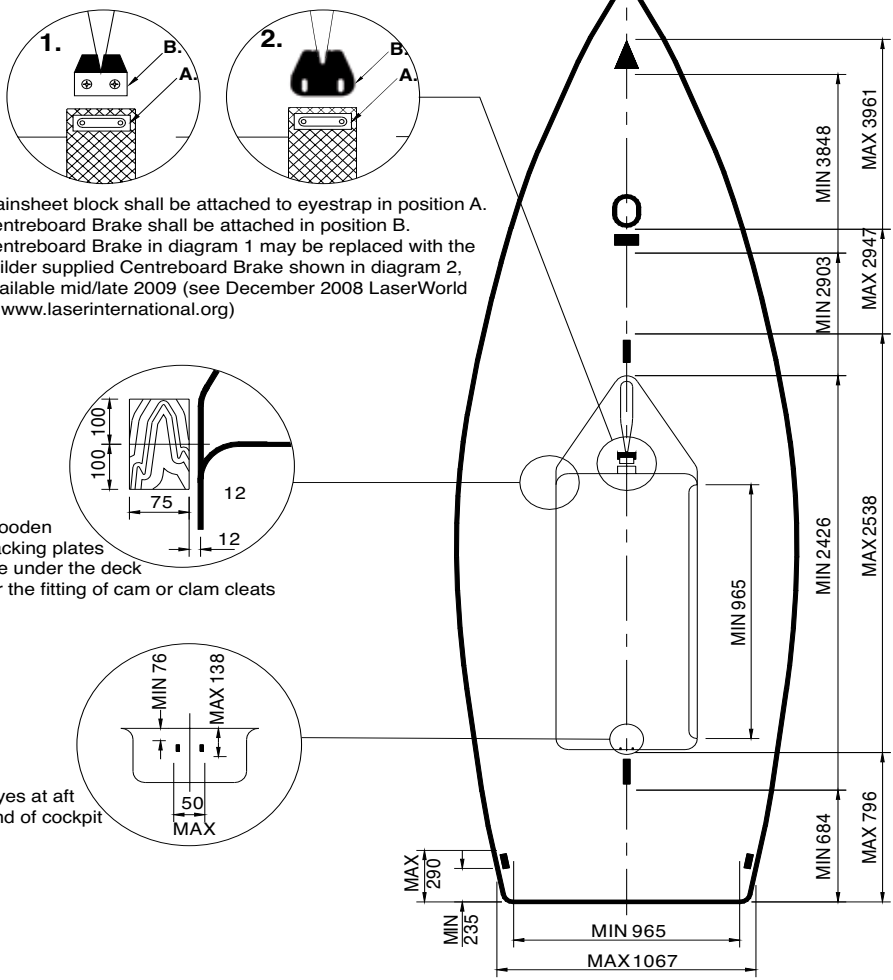
The rhombus may be retained for racing in other events.



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.

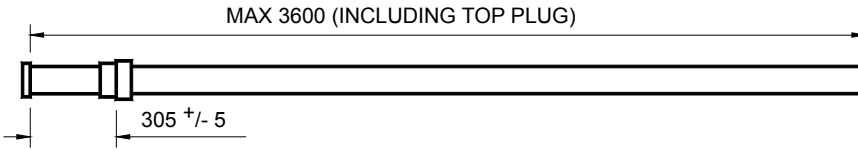


Mainsheet block shall be attached to eyestrap in position A.
Centreboard Brake shall be attached in position B.
Centreboard Brake in diagram 1 may be replaced with the builder supplied Centreboard Brake shown in diagram 2, available mid/late 2009 (see December 2008 LaserWorld or www.laserinternational.org)

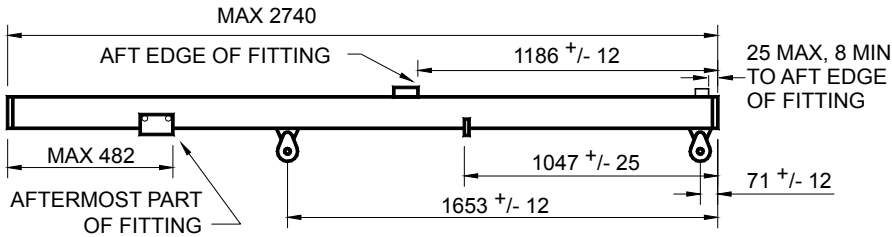
Wooden backing plates are under the deck for the fitting of cam or clam cleats

Eyes at aft end of cockpit

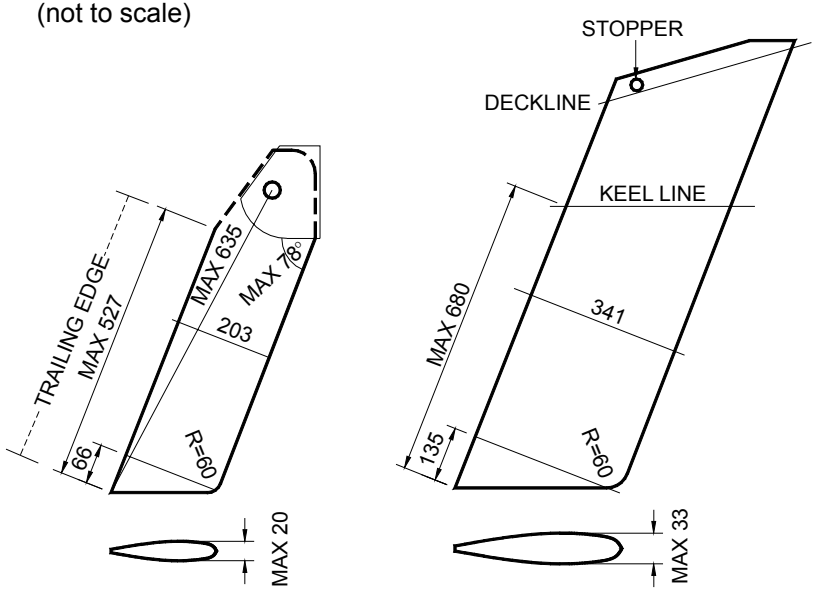
LASER, LASER RADIAL & LASER 4.7 MAST TOP SECTION



LASER, LASER RADIAL & LASER 4.7 BOOM

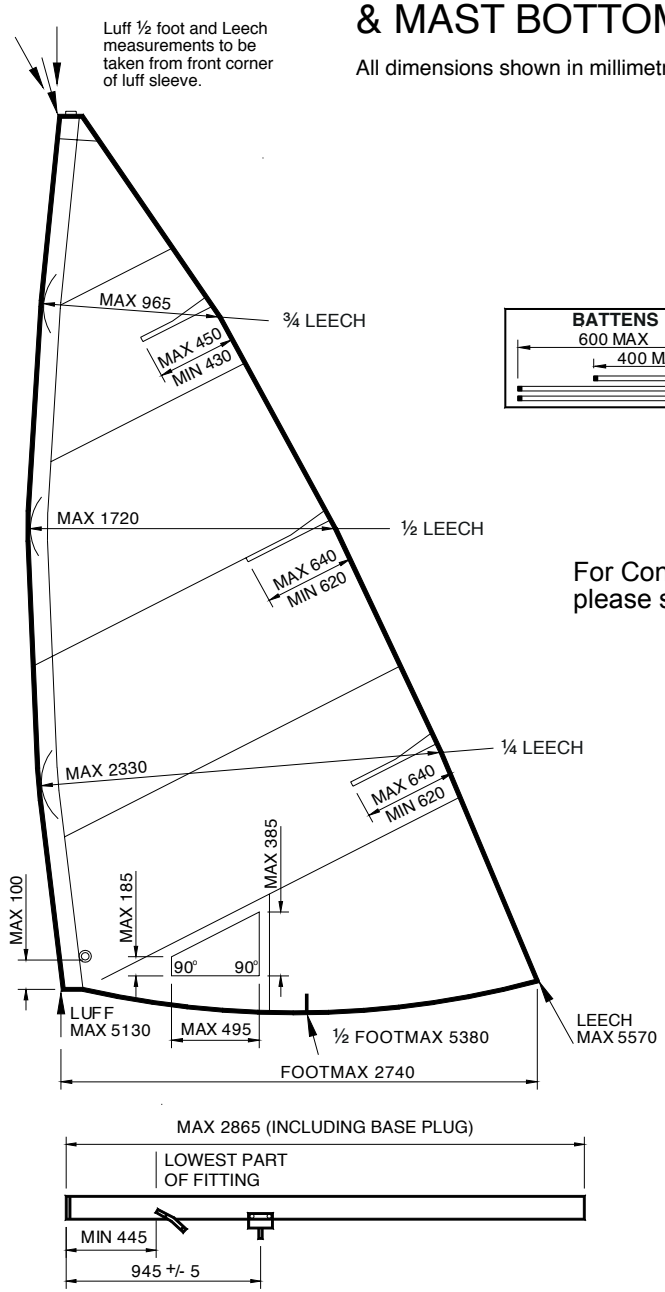


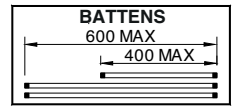
All dimensions shown
in millimetres
(not to scale)



LASER STANDARD MKI SAIL & MAST BOTTOM SECTION

All dimensions shown in millimetres (not to scale)

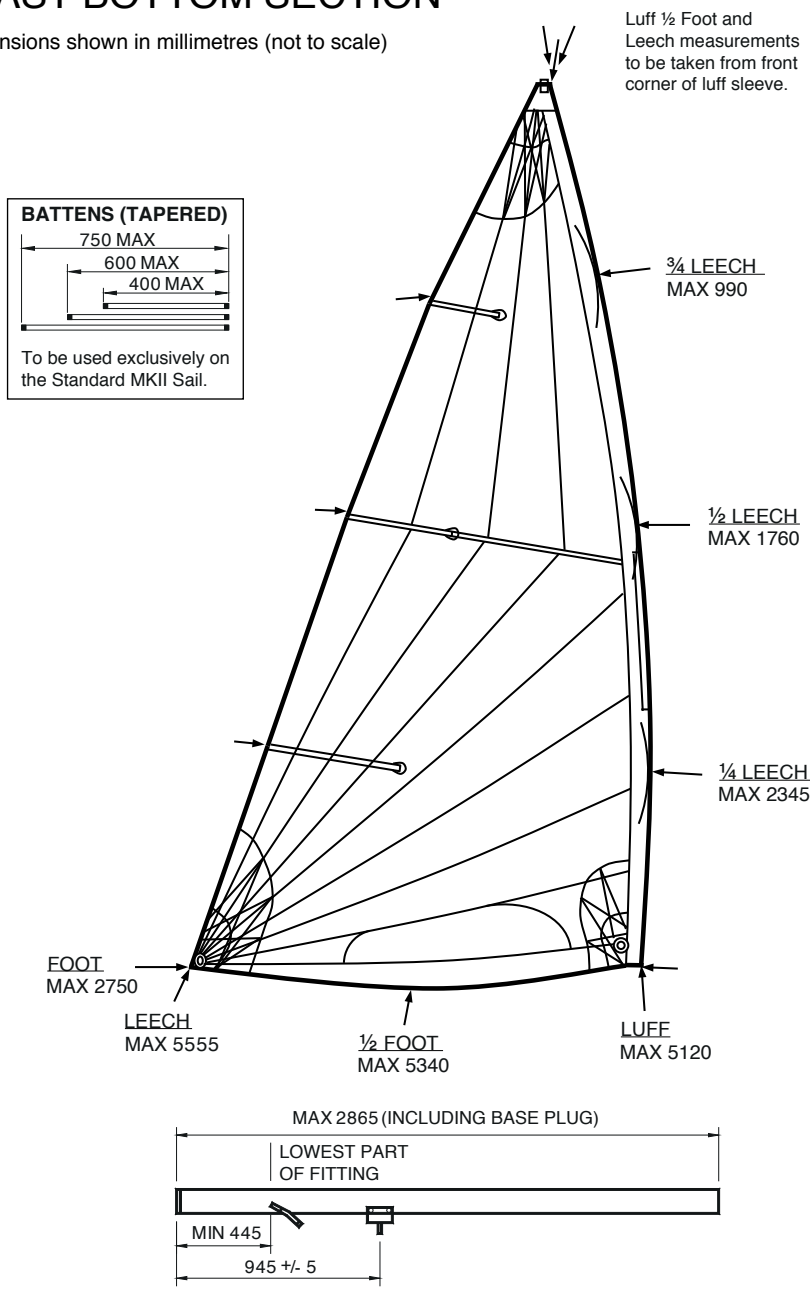




For Concave Batten Caps please see page 43

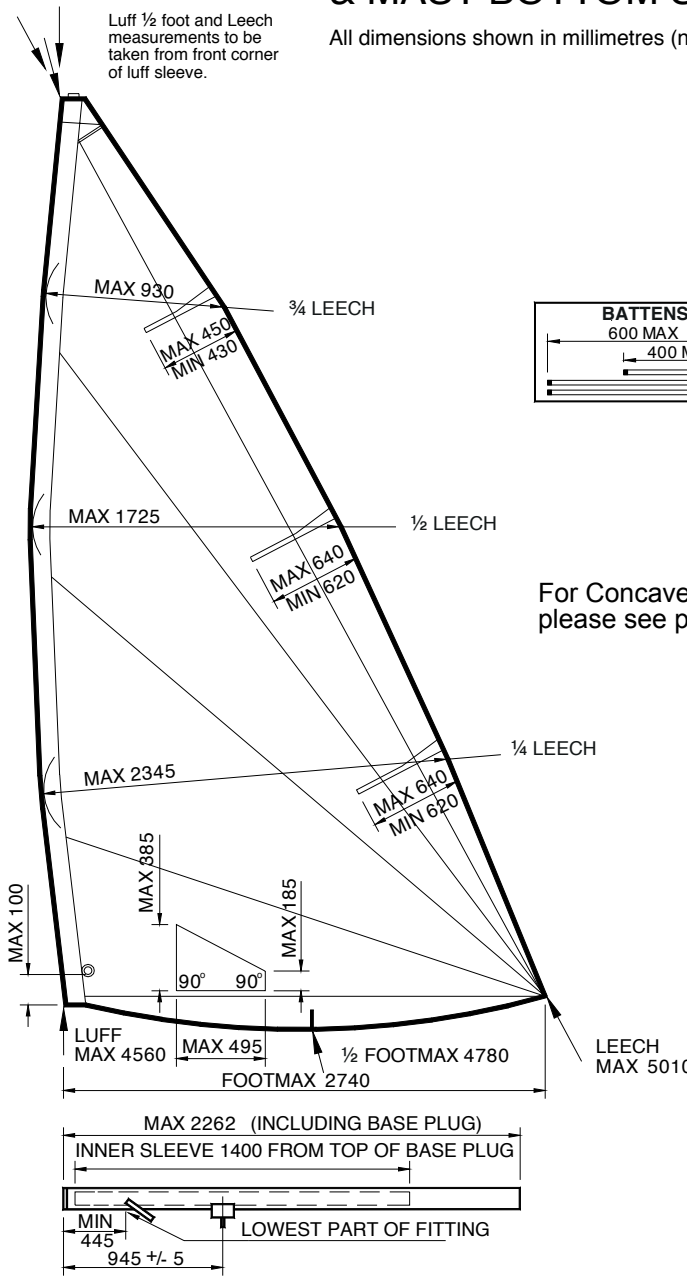
LASER STANDARD MKII SAIL & MAST BOTTOM SECTION

All dimensions shown in millimetres (not to scale)



LASER RADIAL SAIL
& MAST BOTTOM SECTION

All dimensions shown in millimetres (not to scale)

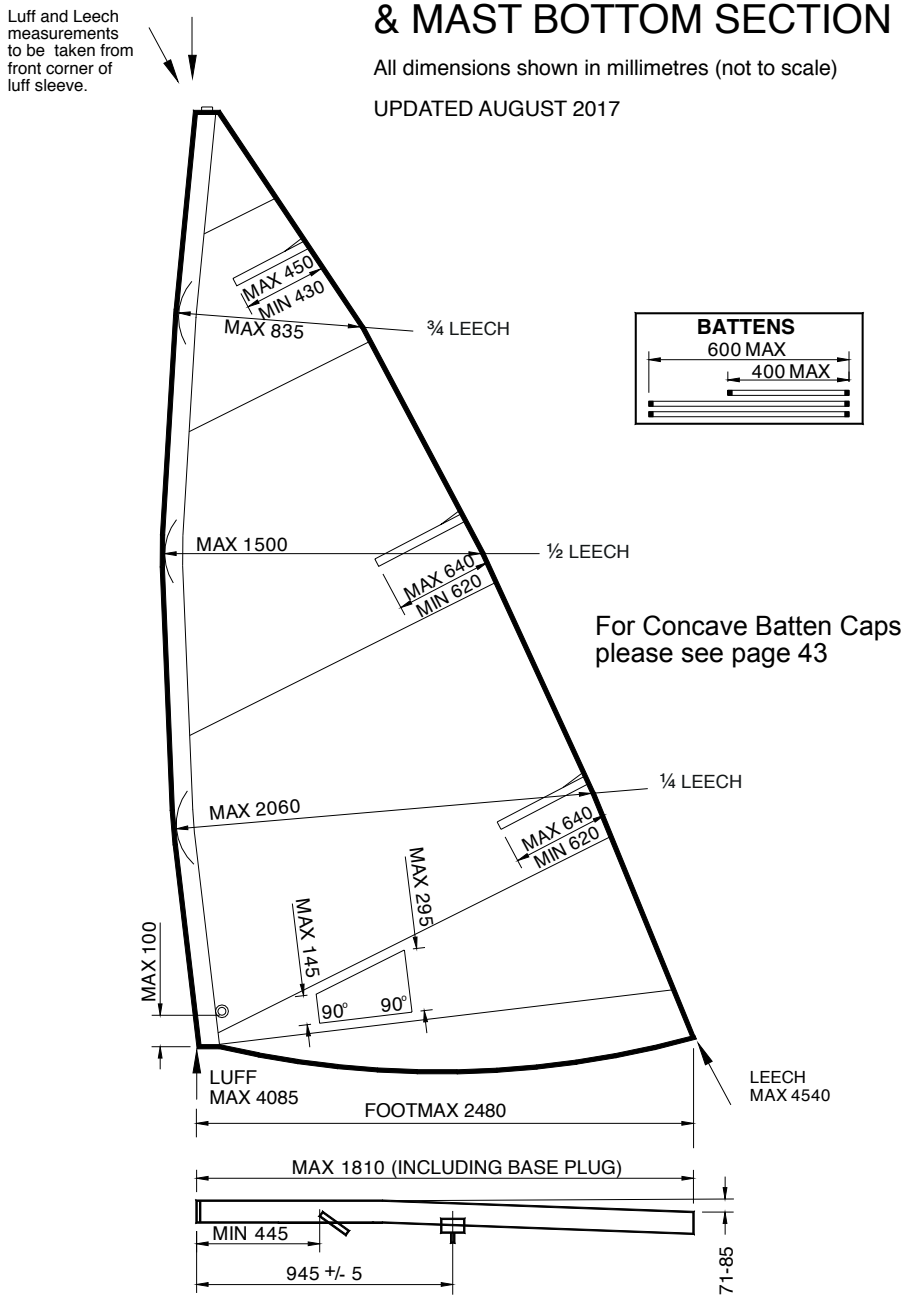


For Concave Batten Caps please see page 43

LASER 4.7 SAIL
& MASTBOTTOM SECTION

All dimensions shown in millimetres (not to scale)

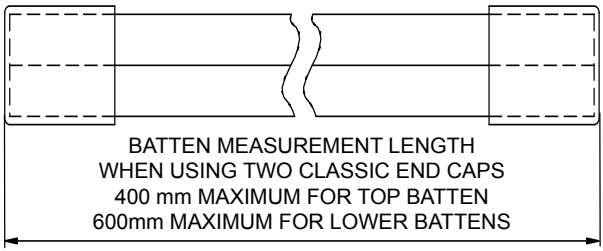
UPDATED AUGUST 2017

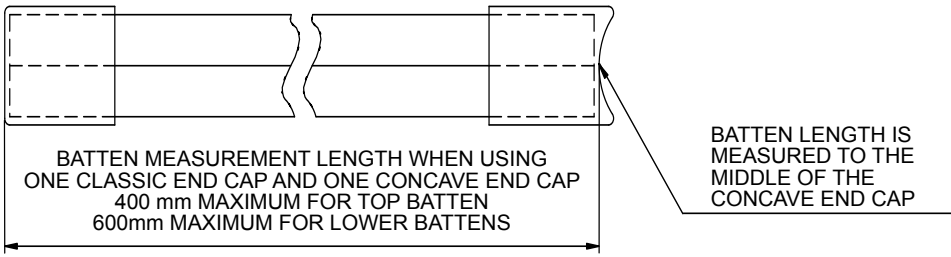


Concave Batten Caps

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

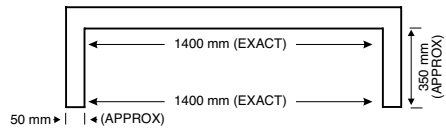
(b) **Equipment**

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

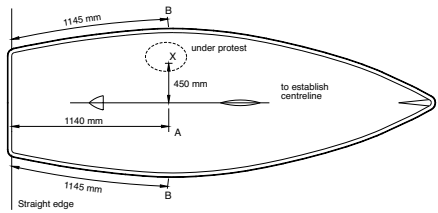
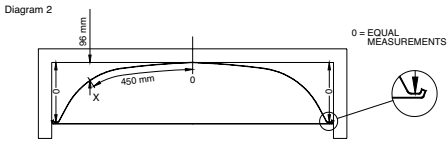


Diagram 2



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

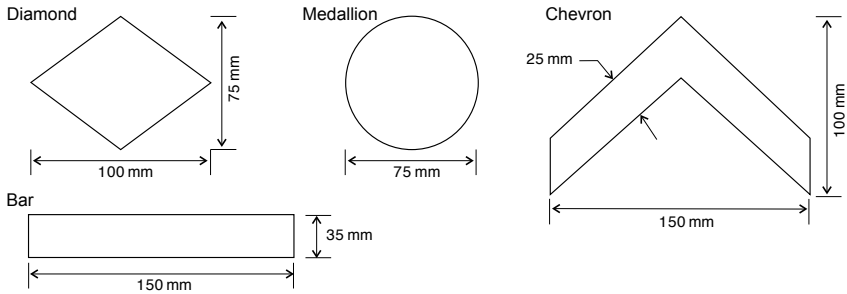
Regional Events ("Bar Event")
Winner
Cube inscribed with 3 Bars
Series 2nd & 3rd place finishers
Cube inscribed with 2 Bars
Series 4th & 5th place finishers
Cube inscribed with 1 Bar

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

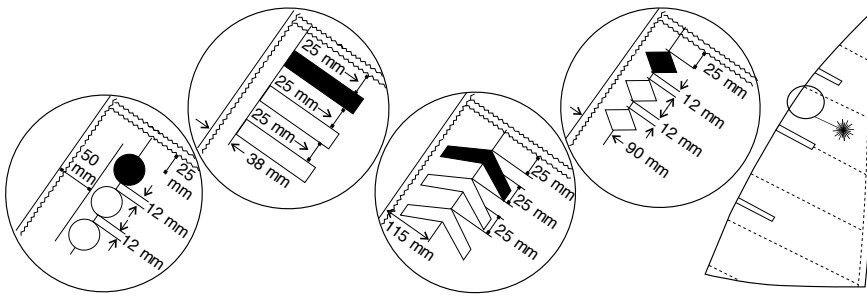
District Events ("Diamond Events")
Winner
Cube inscribed with 3 Diamonds
Series 2nd & 3rd place finishers
Cube inscribed with 2 Diamonds
Series 4th & 5th place finishers
Cube inscribed with 1 Diamond

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).


fig 1


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.


fig 3

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.


fig 4

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).

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.

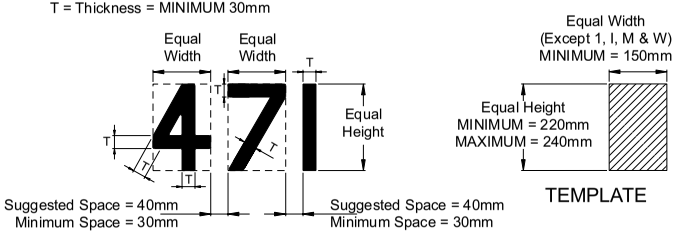
Port Side Numbers and National Letters

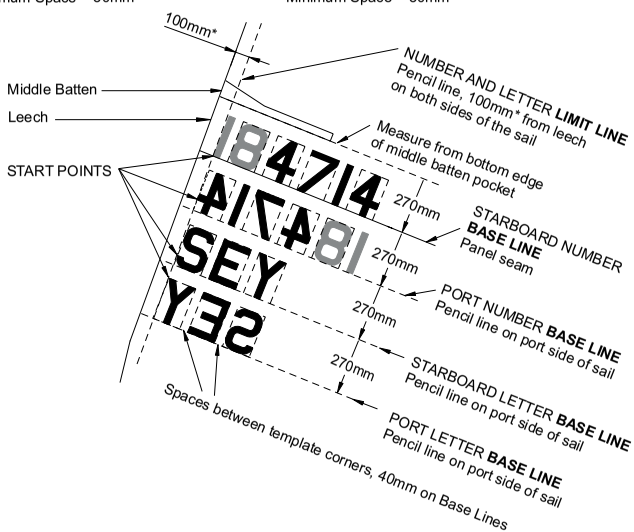
1. Spread the sail out flat on the working surface so that the port side of the sail is facing up. The leech (back edge of the sail) will be on the right hand side. Draw the **Base Line** for the port numbers (and letters).
2. Start with the letter or number closest to the leech making sure that no part 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

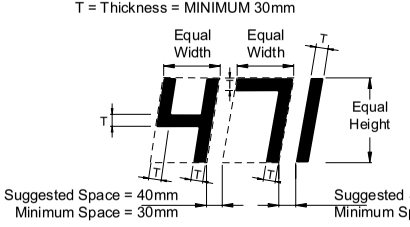
T = Thickness = MINIMUM 30mm

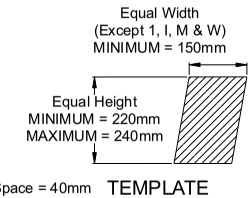


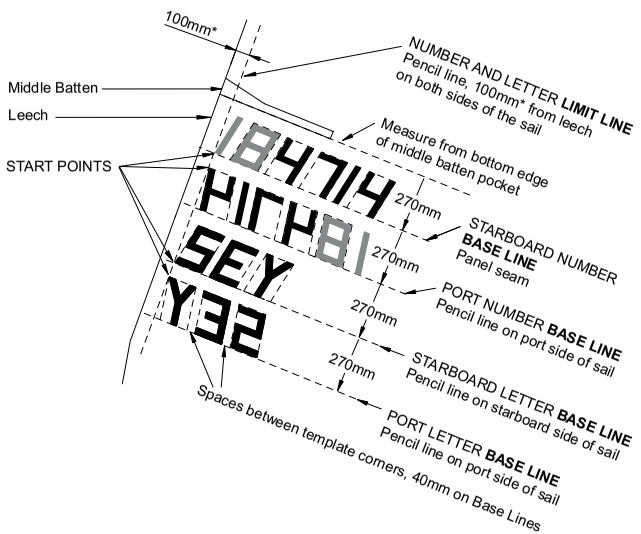


ANGLED NUMBERS AND LETTERS

T = Thickness = MINIMUM 30mm







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.

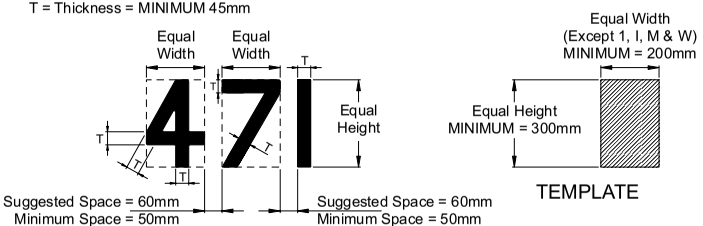
* CLOSEST POINT OF LETTER OR NUMBER SHOULD BE 100mm FROM LEECH, WITH TOLERANCE +/- 12 mm.

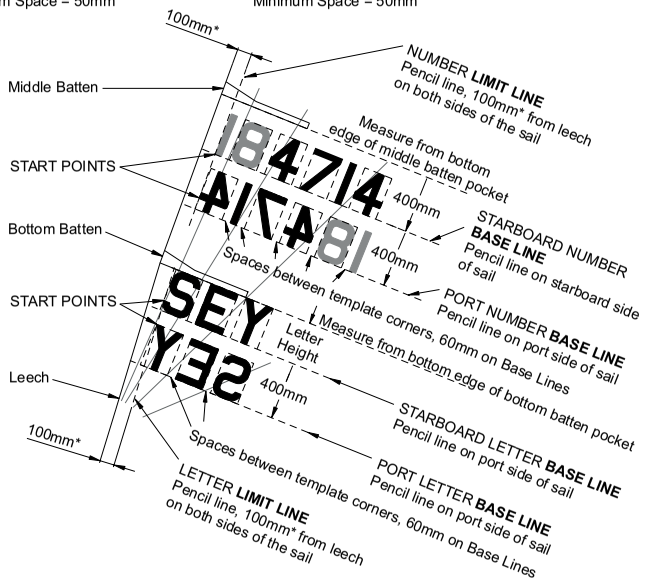
PLEASE NOTE DIAGRAMS ARE NOT PART OF THE CLASS RULES

RADIAL SAIL NUMBER & LETTER SIZES AND POSITIONING

UPRIGHT NUMBERS AND LETTERS

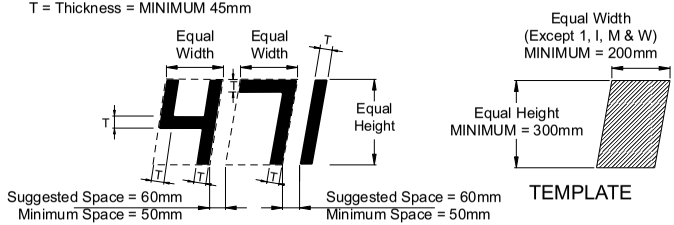
T = Thickness = MINIMUM 45mm

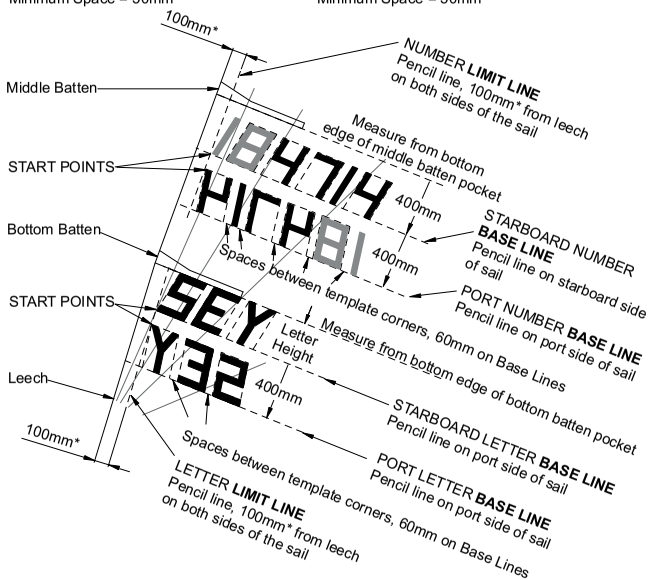




ANGLED NUMBERS AND LETTERS

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.

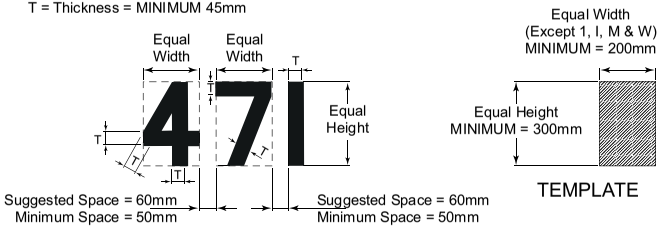
* CLOSEST POINT OF LETTER OR NUMBER SHOULD BE 100mm FROM LEECH, WITH TOLERANCE +/- 12 mm.

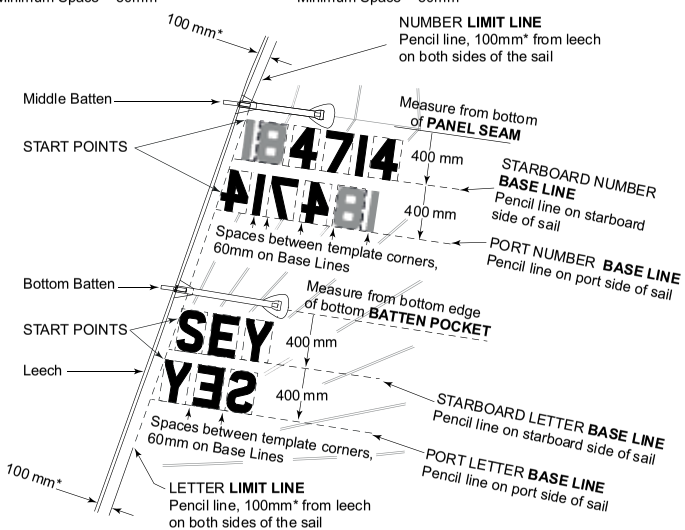
PLEASE NOTE DIAGRAMS ARE NOT PART OF THE CLASS RULES

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

UPRIGHT NUMBERS AND LETTERS

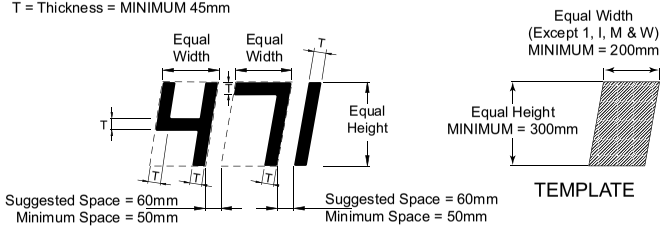
T = Thickness = MINIMUM 45mm

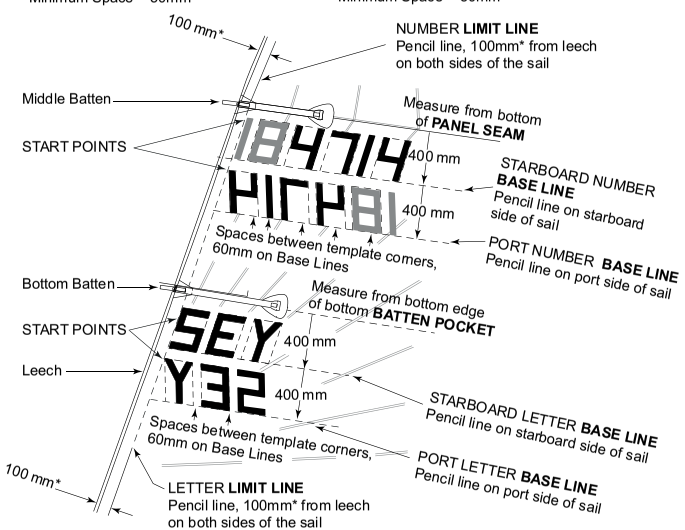




ANGLED NUMBERS AND LETTERS

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.

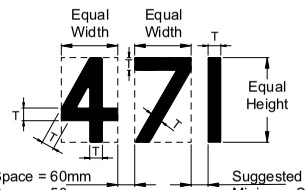
* CLOSEST POINT OF LETTER OR NUMBER SHOULD BE 100mm FROM LEECH, WITH TOLERANCE +/- 12 mm.

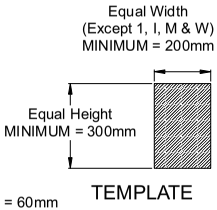
PLEASE NOTE DIAGRAMS ARE NOT PART OF THE CLASS RULES

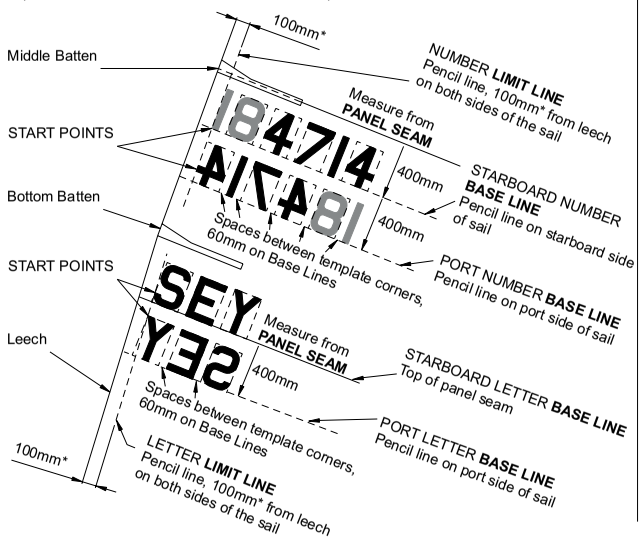
STANDARD MKI (CROSS-CUT) NUMBER & LETTER SIZES AND POSITIONING

UPRIGHT NUMBERS AND LETTERS

T = Thickness = MINIMUM 45mm

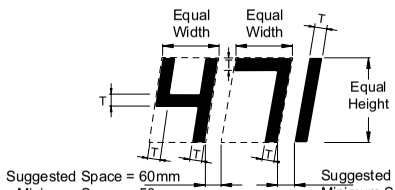


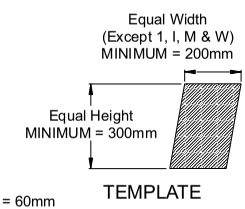


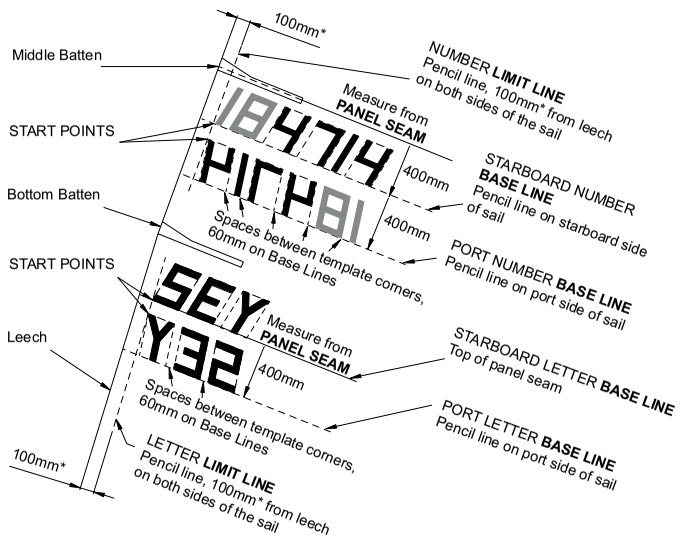


ANGLED NUMBERS AND LETTERS

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

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 Stipanovic . . . . . 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 Stipanovíc . . . . . CRO
5th Andrew Murdoch . . . . . NZL
Laser Radial
Countries 41
1st Lijia 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 Zbogar . . . . . SLO
3rd Diego Romero . . . . . ITA
4th Gustavo Lima . . . . . POR
5th Andrew Murdoch . . . . . NZL
Laser Radial
Countries 28
1st Anna Tunnicliffe. . . . . USA
2nd Gintare Volungeviciute LTU
3rd Lijia Xu. . . . . CHN
4th Sarah Blanck. . . . . AUS
5th Sarah Steyaert . . . . . FRA

2004 Athens, GRE
Laser Standard
Countries 42
1st Robert Scheidt. . . . . BRA
2nd Andreas Geritzer . . . . . AUT
3rd Vasilij Zbogar. . . . . 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 Wearn . . . . . AUS
3rd Philippp Buhl . . . . . GER
4th Sam Meech . . . . . NZL
5th Elliot 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 Arian . . . . . POL
3rd Caelin Winchcombe . . AUS
4th Uffe Tomasgaard . . . . . 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 Tomasgaard . . . . . 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 Büsselberg . . . . . 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 Kye 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 Wearn . . . . . AUS
4th Philippp 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 Merceron . . . . . SUI
3rd Zac Littlewood . . . . . AUS
4th Maxime Mazard . . . . . FRA
5th Daniil Krutskikh . . . . . 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 Whaley . . . . . GBR
U21: Laser Radial Women
Entries 66 Countries 27
1st Mária Érdi . . . . . 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 Yilkan 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 Buesselberg . . . . 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 Rutger Van Schaardenburg NED
4th Matthew Wearn . . . . . AUS
5th Marco Gallo. . . . . ITA
Women: Laser Radial
Entries 72 Countries 32
1st Alison Young . . . . . GBR
2nd Paige Railey . . . . . USA
3rd Ann-Marie Rindom . . . DEN
4th Marit Bouwmeester . . . NED
5th Gintare Volungeviciute -Scheidt 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 Caroline 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 Willim . . . . . GER
4th Santiago Sampaio . . . . POR
5th Nicolo' Villa . . . . . ITA
U21: Laser Radial Women
Entries 59 Countries 39
1st Monika Mikkola . . . . . FIN
2nd Vasileia 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 Tomasgaard. . . . . NOR
5th Andrey De Oliveira Godoy BRA
U18 Women: Laser 4.7
Entries 127 Countries 32
1st Emma Savelon . . . . . NED
2nd Mariia Kislukhina . . . . . RUS
3rd Elisa 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 Wearn . . . . . 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 Döpping . . . . . GER
5th Mon Cañellas 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 Line Flem Høst . . . . . NOR
3rd Monika Mikkola . . . . . FIN
4th Dewi Couvert. . . . . 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 TuellsESP

3rd Guido Gallinaro . . . . . ITA
4th Toygar 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 Al 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 Stalheim. . . . . 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 Sebastien Schneiter . . ESP

2013 Al Musannah, OMA
Youth Men:Laser Radial
Entries 51 Countries 22
1st Benjamin Vadnai . . . . . HUN
2nd Gianmarco Planchestainer ITA
3rd Sebastien Schneiter . . . SUI
4th Ryan Lo . . . . . SIN
5th Jonatan Vadnai . . . . . 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 Tomasgaard. NOR
3rd Francesco Marrai . . . . ITA
4th Lorenzo Chiavarini . . . GBR
5th Giovanni Coccoluto . . . ITA

U21: Laser Radial Women
Entries 96 Countries 32
1st Svenja Weger . . . . . GER
2nd Niki Blassar . . . . . FIN
3rd Claretta Tempesti. . . . . ITA
4th Manami Doi . . . . . JPN
5th Kim Pletikos. . . . . SLO

U18 Men: Laser 4.7
Entries 239 Countries 46
1st Anil Cetin. . . . . TUR
2nd Jonatán Vadnai . . . . . HUN
3rd Conor Nicholas . . . . . AUS
4th Gianmarco Planchestainer ITA
5th Sergio Silva . . . . . PER

U18 Women: Laser 4.7
Entries 130 Countries 33
1st Silvia Morales Gonzalez ESP
2nd Magdalena Kwasna . . . POL
3rd Sofia Capparuccini . . . ITA
4th Alba Elejabeitia . . . . . 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 Alison 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 López Carcaré . ESP

2012 Brisbane, AUS
Men: Laser Radial
Entries 54 Countries 9
1st Tristan Brown . . . . . AUS
2nd Matthew Wearn . . . . . AUS
3rd Jeremy OConnell. . . . . AUS
4th Mahia Pepper . . . . . NZL
5th Daniel Smith . . . . . AUS

Youth Men:Laser Radial
Entries 71 Countries 11
1st Hermann Tomasgaard. 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 19
1st Maxime Jonker . . . . . NED
2nd Madison Kennedy . . . . AUS
3rd Georgina Povall. . . . . GBR
4th Milly Bennett . . . . . AUS
5th Anna Philip . . . . . AUS

2012 Buenos Aires, ARG
U18 Men: Laser 4.7
Entries 71 Countries 25
1st Benjamin Vadnai . . . . . HUN
2nd Nahuel Rodríguez PérezESP
3rd Maximilian Kuester . . . ITA
4th Jacopo Fanti . . . . . ITA
5th Raul Sanchez Lago . . . ESP

U16 Men: Laser 4.7
Entries 20 Countries 12
1st Joel Rodríguez Pérez . ESP
2nd Malone Chao Jie Pun . SIN
3rd Luka Tosic . . . . . SRB
4th Liam Mccarthy. . . . . USA
5th Francisco Guaragna . . ARG

U18 Women: Laser 4.7
Entries 46 Countries 17
1st Celine Therese Herud . NOR
2nd Yolanda Luque GonzalezESP
3rd Anja Hamerlitz. . . . . CRO
4th Júlia 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 Groteluschen . . GER
3rd Nick Thompson . . . . . GBR
4th Andreas Geritzer . . . . . AUT
5th Paul Goodison . . . . . GBR

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

2011 La Rochelle, FRA
U21: Laser Standard
Entries 151 Countries 40
1st Sam Meech . . . . . NZL
2nd Alex Mills-Barton . . . . . GBR
3rd Martin Evans . . . . . GBR
4th Ki-Raphael Sulkowski . AUS
5th Francesco Marrai . . . . ITA

2011 La Rochelle, FRA
Men: Laser Radial
Entries 135 Countries 35
1st Marcin Rudawski. . . . . POL
2nd James Burman . . . . . AUS
3rd Yuri Hummel . . . . . NED
4th Tristan Brown . . . . . AUS
5th Juan Carlos Perdomo . PUR

Youth Men:Laser Radial
Entries 277 Countries 42
1st Giovanni Coccoluto . . . ITA
2nd Elliot Hanson . . . . . GBR
3rd Eliot Merceron . . . . . FRA
4th Mitchell Kiss . . . . . USA
5th Tommaso Centonze . . ITA

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

2011 San Francisco, USA
U18 Men: Laser 4.7
Entries 112 Countries 28
1st Francisco Gonzalez S. ESP
2nd Carlos Rosello. . . . . ESP
3rd William de Smet . . . . . BEL
4th Keiju Okada. . . . . JPN
5th Mehmet Turkmen . . . . TUR

U16 Men: Laser 4.7
Entries 39 Countries 22
1st Nils Theuninck. . . . . SUI
2nd Anthony Parke. . . . . GBR
3rd Martin Lowy. . . . . BRA
4th Nicholas Connor . . . . . AUS
5th Trent Rippey . . . . . NZL

U18 Women: Laser 4.7
Entries 53 Countries 19
1st Cecilia Zorzi. . . . . ITA
2nd Kim Pletikos. . . . . SLO
3rd Line Flem Hôst . . . . . NOR
4th Celine Theresa Herud . NOR
5th Maud Jayet . . . . . SUI

U16 Women: Laser 4.7
Entries 12 Countries 8
1st Maud Jayet . . . . . SUI
2nd Athanasia Fakidi . . . . . GRE
3rd Vasileia Karachaliou . . GRE
4th Savannah Siew K. Hui. SIN
5th Marine V.Campenhoudt SUI

2010 Hayling Island, GBR
Open: Laser Standard
Entries 160 Countries 53
1st Tom Slingsby. . . . . AUS
2nd Nick Thompson . . . . . GBR
3rd Andrew Murdoch . . . . . NZL
4th Julio Alsogaray . . . . . ARG
5th Pavlos Contides. . . . . CYP

U21: Laser Standard
Entries 137 Countries 37
1st Thorbjoern 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 Luca Antognoli. . . . . ITA
4th Stefano Mazzaferro . . . BRA
5th Mitchell Kiss . . . . . USA

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

2010 Pattaya, THA
U18 Men: Laser 4.7
Entries 45 Countries 22
1st Etienne Le Pen . . . . . FRA
2nd Supakorn Pongwichean THA
3rd Jolbert Van Dijk . . . . . NED
4th Luca Malusa . . . . . ITA
5th Juan Carlos Perdomo . PUR

U18 Women: Laser 4.7
Entries 40 Countries 20
1st Caitlin Elks. . . . . AUS
2nd Nur Amirah Hamid. . . . MAS
3rd Oren Jacob . . . . . ISR
4th Ashlie Lane . . . . . AUS
5th Ella Evans . . . . . AUS

U16 Mixed: Laser 4.7
Entries 31 Countries 14
1st Ryan Amlehn . . . . . NZL
2nd Mark Spearman. . . . . AUS
3rd Filipos Florentin . . . . . GRE
4th Panagiotis Stathis . . . . GRE
5th Benjamin Whiteside. . . NZL

2009 Halifax, CAN
Open: Laser Standard
Entries 168 Countries 51
1st Paul Goodison. . . . . GBR
2nd Michael Bullot . . . . . 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 Romsi 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 Maksymiuk . . . POL

2009 Buzios, BRA
Youth Men: Laser 4.7
Entries 109 Countries 24
1st Jonathan Martinetti . . . ECU
2nd Hermann Tomasgaard. NOR
3rd Juraj Divjakinja . . . . . CRO
4th Guillermo Arce. . . . . PER
5th Tono Alcazar . . . . . ESP

Youth Women: Laser 4.7
Entries 39 Countries 23
1st Urska Kosir . . . . . SLO
2nd Tomoyo Wakabayashi . JPN
3rd Hitomi Murayama . . . . JPN
4th Kim 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 Zbogar. . . . . 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 Visic . . . . . CRO
5th Alexandros Chocholis . GRE
Youth Women: Laser 4.7
Entries 116 Countries 32
1st Elizabeth Yin . . . . . SIN
2nd Matea Senkic . . . . . CRO
3rd Antea Kordic . . . . . CRO
4th 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 Deniss Karpak . . . . . 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 Szotynska. . 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 Thorbjoern Schierup . . DEN
2nd Ioannis Mitakis . . . . . GRE
3rd Gijs Pelt . . . . . NED
4th Joaquin Blanco . . . . . ESP
5th Barbaros Tuna . . . . . TUR
Youth Women: Laser Radial
Entries 68 Countries 26
1st Tuula Tenkanen . . . . . FIN
2nd Susana Romero . . . . . ESP
3rd Sarah Gunni . . . . . DEN
4th Anne Haeger . . . . . USA
5th Mathilde de Kerangat . FRA
2007 Hermanus, RSA
Youth Men: Laser 4.7
Entries 95 Countries 27
1st Filip Matika . . . . . CRO
2nd Baepi Pinna . . . . . BRA
3rd Alexander Zimmermann PER
4th Boris Bignoli . . . . . ITA
5th Jakob Bozic . . . . . SLO
Youth Women: Laser 4.7
Entries 25 Countries 14
1st Tajana Ganic . . . . . CRO
2nd Ewa Makowska . . . . . POL
3rd Lina Stock . . . . . CRO
4th Tiffany Brien . . . . . IRL
5th Matea Senkic . . . . . CRO

2006 Jeju Island, KOR
Open: Laser Standard
Entries 128 Countries 43
1st Michael Blackburn . . . . AUS
2nd Tom Slingsby . . . . . AUS
3rd Rasmus Myrgen . . . . . SWE
4th Michael Leigh . . . . . CAN
5th Gustavo Lima . . . . . POR
2006 Los Angeles, USA
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 Calles Wolf MEX
4th Anna Tunnicliffe. . . . . USA
5th Evi Van Ecker . . . . . BEL
Youth Men: Laser Radial
Entries 140 Countries 21
1st Kyle Rogachenko . . . . USA
2nd Guilherme Barbosa Lima BRA
3rd Mathew Archibald . . . . CAN
4th Joaquin Blanco . . . . . ESP
5th James Sandall. . . . . NZL
Youth Women: Laser Radial
Entries 39 Countries 12
1st Claire Dennis. . . . . USA
2nd Susana Romero . . . . . ESP
3rd Allie Blecher . . . . . USA
4th Laura Maes . . . . . BEL
5th Stephanie Roble . . . . . USA
2006 Hourtin, FRA
Youth Men: Laser 4.7
Entries 237 Countries 27
1st Colin Xinn Cheng . . . . SIN
2nd Victor Serezhkin . . . . . 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 Zbogar . . . . . SLO
5th Mate Arapov . . . . . CRO
Men: Laser Radial
Entries 90 Countries 24
1st Eduardo Magalhães . . BRA
2nd Brad Funk . . . . . USA
3rd Blair Mclay . . . . . NZL
4th Martin Jenkins . . . . . ARG
5th Andreas Perdicaris . . . BRA
Women: Laser Radial
Entries 76 Countries 31
1st Paige Railey . . . . . 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 Viviane de Oliveira. . . . BRA
4th Luiza de Saboia . . . . . BRA
5th Cecilia de Andrade . . . BRA
2005 Barrington, USA
Entries 92 Countries 16
Youth Men: Laser 4.7
1st Joaquin Blanco . . . . . ESP
2nd Adam Sims . . . . . GBR
3rd Dany Stanisic . . . . . SLO
4th Guney Kaptan . . . . . TUR
5th Marco Teixidor . . . . . PUR
Youth Women: Laser 4.7
1st Stephanie Roble . . . . . USA
2nd Annie Haeger . . . . . USA
3rd Cecilia Aragao . . . . . BRA
4th Matilde Fabbri . . . . . ITA
5th Nilsu Orgen . . . . . TUR

2004 Bitez, TUR
Open: Laser Standard
Entries 145 Countries 60
1st Robert Scheidt. . . . . BRA
2nd Mark Mendelblatt. . . . . USA
3rd Michael Blackburn . . . . AUS
4th Hamish Pepper . . . . . NZL
5th Karl Suneson. . . . . SWE
2004 Brisbane, AUS
Men: Laser Radial
Entries 133 Countries 11
1st Michael Blackburn . . . . AUS
2nd Aron Lolic . . . . . CRO
3rd Tom Slingsby. . . . . AUS
4th Blair McLay . . . . . NZL
5th Marc Orams. . . . . NZL
Women: Laser Radial
Entries 37 Countries 12
1st Krystal Weir . . . . . AUS
2nd Christine Bridge . . . . . AUS
3rd Cecilia Carranza Saroli . . ARG
4th Nufar Edelman. . . . . ISR
5th Gea Jutjens . . . . . NED
Youth: Laser Radial
Entries 108 Countries 18
1st Jean Baptiste Bernaz . FRA
2nd Nathan Outteridge . . . . AUS
3rd Daniel 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 Tina Mihelic . . . . . CRO
3rd Cansin Karga. . . . . TUR
4th Vanessa le Bouteiller. . FRA
5th Clare Chapple . . . . . GBR

2003 Cadiz, ESP
Open: Laser Standard
Entries 174 Countries 61
1st Gustavo Lima . . . . . POR
2nd Robert Scheidt. . . . . BRA
3rd Michael Blackburn . . . . AUS
4th Luis Martinez. . . . . ESP
5th Daniel Birgmark. . . . . SWE
2003 Riva del Garda, ITA
Men: Laser Radial
Entries 231 Countries 31
1st Aron Lolic . . . . . CRO
2nd Jake Bartrom. . . . . NZL
3rd Karlo Krpeljevic . . . . . CRO
4th Max Bulley. . . . . FRA
5th Marc Jux . . . . . CHI
Women: Laser Radial
Entries 50 Countries 16
1st Katarzyna Szotynski . . POL
2nd Krystal Weir. . . . . AUS
3rd Jeanette Dagson . . . . . SWE
4th Corinne Meyer. . . . . SUI
5th Gea Jutjens . . . . . NED
Youth: Laser Radial
Entries 280 Countries 27
1st Tonci Stipanovic . . . . . CRO
2nd Tonko Kuzmanic . . . . . CRO
3rd Jonasz Stelmaszyk . . . POL
4th Campbell Davidson . . . GBR
5th Javier Padron . . . . . ESP
2003 Cesme, TUR
Entries 98 Countries 18
Youth Men: Laser 4.7
1st Onur Derebasi. . . . . TUR
2nd Ates Cinar . . . . . TUR
3rd Mustafa Cakir . . . . . TUR
4th Philip White . . . . . GBR
5th 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 Casey . . . . . AUS
2002 Ontario, CAN
Men: Laser Radial
Entries 101 Countries 19
1st Karlo Krpeljevic . . . . . CRO
2nd Chris Ashley . . . . . USA
3rd Tiago Rodrigues . . . . . BRA
4th David Wright . . . . . CAN
5th Jake Bartrom . . . . . NZL
Women: Laser Radial
Entries 38 Countries 10
1st Katarzyna Szotynski . . POL
2nd Miranda Powrie . . . . . NZL
3rd 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 Michelic . . . . . CRO
3rd Colin Robaard . . . . . NED
4th Stefano Meciani. . . . . ITA
5th Dennis Karpak. . . . . EST
Youth Women: Laser 4.7
1st Tugce Subasi. . . . . TUR
2nd Celine Olivon. . . . . FRA
3rd Mandy Mulder . . . . . NED
4th Samantha Chidgey . . . AUS
5th Lidia Noto . . . . . ITA

2001 Cork, IRL
Open: Laser Standard
Entries 159 Countries 48
1st Robert Scheidt. . . . . BRA
2nd Gustavo Lima . . . . . POR
3rd Peer Moberg . . . . . NOR
4th Paul Goodison. . . . . GBR
5th Gareth Blanckenberg . . 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 Krpeljevic . . . . . CRO
Women: Laser Radial
Entries 56 Countries 23
1st Katarzyna Szotynsk. . . IPOL
2nd Larissa Nevierov . . . . 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 Georgaris. . . . . GRE
3rd Alexandre Monteau . . . FRA
4th Mathieu Murati. . . . . FRA
5th Guray Zimbul. . . . . TUR

2000 Cancun, MEX
Open: Laser Standard
Entries 141 Countries 50
1st Robert Scheidt. . . . . BRA
2nd Michael Blackburn . . . . AUS
3rd Ben Ainslie. . . . . GBR
4th Karl Suneson . . . . . SWE
5th Serge Kats. . . . . NED
2000 Cesme, TUR
Men: Laser Radial
Entries 124 Countries 25
1st Fredrik Lassenius . . . . SWE
2nd Alexandros Logothetis. . GRE
3rd Vangelis Chimonas . . . GRE
4th Petar Cupac . . . . . CRO
5th Kemal Muslubas . . . . . TUR
Women: Laser Radial
Entries 33 Countries 16
1st Katarzyna Szotynski . . POL
2nd Nicola Muller . . . . . GBR
3rd Jayne Singleton. . . . . GBR
4th Jeanette Dagson . . . . . SWE
5th Denis Karacaoglu . . . . TUR
Youth: Laser Radial
Entries 137 Countries 31
1st Guray Zumbul . . . . . 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 . . . . . POR
2nd Andonis Bougiouris . . . GRE
3rd Alexandros Logothetis. . GRE
4th Raimondos Siugzdinis. . 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 Marcelein 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 Raimondas Siugzdinis. . . LTU
2nd Romain Knipping . . . . . FRA
3rd Selim Kakis . . . . . TUR
4th Benoit Raphalen . . . . . 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 Questroy . . . 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 Kirkjian . . . . . AUS
5th David Huet. . . . . FRA

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

1994 Wakayama, JPN
Open: Laser Standard
Entries 120 Countries 36
1st Nikolas Burfoot . . . . . NZL
2nd Pascal Lacoste . . . . . FRA
3rd Serge Kats. . . . . NED
4th Hamish Pepper . . . . . NZL
5th Peer Moberg . . . . . NOR

Men: Laser Radial
Entries 82 Countries 14
1st Rui Pedro Coelho . . . . POR
2nd Rodion Luka . . . . . UKR
3rd Nathan Handley. . . . . NZL
4th Yanghe Zhu . . . . . CHN
5th Todd Holzapfel. . . . . 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 Zucchinetti . . . ITA
5th Marina Psichogiou . . . . GRE

1990 Newport, USA
Open: Laser Standard
Entries 103 Countries 26
1st Glenn Bourke . . . . . AUS
2nd Steven Bourdow . . . . . USA
3rd Peter Tanscheit . . . . . BRA
4th Mark Brink . . . . . USA
5th Steve Rich . . . . . GBR

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

Women: Laser Radial
Entries 30 Countries 11
1st Ardis Bollweg. . . . . NED
2nd Ulrika Antonsson . . . . SWE
3rd Jacqueline Ellis . . . . . AUS
4th Shona Moss . . . . . CAN
5th Lotta Nilsson . . . . . SWE

1989 Aarhus, DEN
Open: Laser Standard
Entries 104 Countries 28
1st Glenn Bourke . . . . . AUS
2nd Wouter Deutz. . . . . NED
3rd Scott Ellis. . . . . AUS
4th 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 Yuguan 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 Dahllof . . . . . SWE

1988 Falmouth, GBR
Open: Laser Standard
Entries 88 Countries 24
1st Glenn Bourke . . . . . AUS
2nd Benny Anderson . . . . . DEN
3rd Peter Fox. . . . . NZL
4th Mark Brink . . . . . USA
5th Stefan Warkalla . . . . . GER

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

Youth: Laser Standard
Entries 62 Countries 20
1st Ville Aalto Setala . . . . FIN
2nd Joakim Berg . . . . . SWE
3rd Jeroen Harderwijk . . . . NED
4th Jon Lasenby . . . . . GBR
5th Nikos Nikoltsoudis . . . . GRE

1987 Melbourne, AUS
Open: Laser Standard
Entries 130 Countries 20
1st Stuart Wallace . . . . . AUS
2nd Gunni Pedersen . . . . . DEN
3rd Peter Tanscheit . . . . . BRA
4th Nelson Alencastro . . . . BRA
5th Simon Cole . . . . . GBR

1985 Halmstad, SWE
Open: Laser Standard
Entries 108 Countries 28
1st Lawrence Crispin. . . . . GBR
2nd Andreas John . . . . . GER
3rd Benny Andersen . . . . . DEN
4th Gustaf Svensson . . . . . SWE
5th Stefan Warkalla . . . . . GER

Women: Laser Standard
Entries 26 Countries 12
1st Marit Soderstrom. . . . . SWE
2nd Lynne Jewell . . . . . USA
3rd Francesca Pavesi . . . . ITA
4th Susanne Madsen . . . . DEN
5th Claudine Tatibouet. . . . FRA

1983 Gulfport, USA
Open: Laser Standard
Entries 145 Countries 27
1st Oscar Paulich . . . . . NED
2nd Per Arne Nilson . . . . . 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 Carolle 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
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 Curler . . . . . NZL
4th Sjaak Haakman . . . . . NED
5th Duncan Lewis . . . . . CAN

Women: Laser Standard
Entries: 20
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 Aanholt. . . . . 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

==========

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 Whait ..... AUS
4th Orlando Gledhill ..... GBR
5th Peter Hurley ..... USA
Grand Masters
1st Mark Lyttle ..... 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 Peelo ..... GBR
5th Darrell Reamsbottom ..... IRL
Women Apprentices
1st Alison Stevens ..... GBR
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 Lenci ..... ITAL
3rd Alexandra Weihrauch ..... 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 Wastesson ..... SWE
3rd Christopher Boyd ..... IRL
4th Jean-Luc Dreyer ..... SUI
5th Lorenz Müller ..... SUI
Women Great Grand Masters
1st Hilary Thomas ..... GBR
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

2017 Split, CRO
Entries 349 Countries 35

Laser Standard
Apprentices
1st Maciej Grabows ..... POL
2nd Maxim Semerkh ..... RUS
3rd Adonis Bougiour ..... GRE
4th Guilherme Roth ..... BRA
5th Girts Fisers-Blu ..... LAT
Masters
1st Brett Beyer ..... AUS
2nd Peter Hurley ..... USA
3rd Ernesto Rodrigu ..... USA
4th Niklas Edler ..... SWE
5th Chr. Gunni Pede ..... 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 Chimona .... GRE
Women Apprentices
1st Anastasia Chernova .. RUS
2nd Georgia Chimona .... 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 Lenci ..... ITA
2nd Michelle Bain ..... NZL
3rd Monica Wilson ..... USA
4th Kimberly Couranz .... USA
5th Alexandra Weihrauch . 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 Loren ..... 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
6th Michael Kinnear..... GBR
Women Great 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 Meesemaecker. 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 Gunther ..... 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 Fabio Suyama Ramos BRA
Women Apprentices
1st Natalya Gontcharova . USA
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 Jonsson..... SWE
3rd Diane Sissingh ..... AUS
4th Alexandra Weihrauch . 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 Lyyndall Patterson.... AUS
3rd Kathy Luciano ..... USA
Great Grand Masters
1st Robert Lowndes ..... AUS
2nd William Symes ..... USA
3rd Michael Kinnear ..... GBR
4th Jon Andron ..... USA
5th Kevin Phillips ..... AUS
Women Great Grand Masters
1st Hilary Thomas ..... GBR
Over 75 Masters
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 ..... USA
3rd Ari Barshi ..... DOM
4th Marc 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 Alan Keen ..... RSA
3rd Robert Blakey ..... NZL
4th David Frazier..... 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 ..... CAN
2nd Alexandra Weihrauch . 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 Margaret Podlich..... 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 Paule Samson..... CAN
2nd Judith Krimski..... USA
Great Grand Masters
1st Robert Lowndes ..... AUS
2nd Bill Symes ..... USA
3rd Keith Wilkins ..... GBR
4th Daniel Devos..... FRA
5th Michael Kinnear ..... GBR
Women Great Grand Masters
1st Hilary Thomas..... GBR
Over 75 Masters
1st Peter Seidenberg .... USA
2nd Johan van Rossem ... CAN
3rd Michael Shields..... NZL
4th Heini Wellmann..... SUI
5th Geoffrey Lucas ..... AUS
Women Over 75 Masters
1st Deidre Webster ..... CAN

2014 Hyeres, FRA
Entries 499 Countries 36

Laser Standard
Apprentices
1st Adonis Bougiouris ... GRE
2nd Marciel Grabowski ... POL
3rd Matt Blakey ..... NZL
4th Angelo Tabernero .... ESP
5th Urban Nyhammar .... SWE
Masters
1st Brett Beyer ..... AUS
2nd Arnoud Hummel ..... NED
3rd Peter Shope ..... USA
4th Scott Ferguson ..... USA
5th Christian Gunni Pedersen DEN
Grand Masters
1st Nick Harrison ..... GBR
2nd Andy Roy ..... CAN
3rd Peter Vessella ..... USA
4th Colin Dibb ..... 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

Laser Radial
Apprentices
1st Jon Emmett ..... GBR
2nd Scott Leith ..... NZL
3rd Alp Alpagut ..... TUR
4th Iago Whately ..... BRA
5th Edmund Tam ..... NZL
Women Apprentices
1st Monica Azon ..... ESP
2nd Cecile Venaut ..... FRA
3rd Caroline Muselet .... CAN
4th Alexandra Weihrauch . GER
Masters
1st Stephen Cockerill .... GBR
2nd Mark Kennedy ..... AUS
3rd Joao Ramos ..... BRA
4th Richard Blakey ..... NZL
5th Ian Jones ..... GBR
Women Masters
1st Helene Viazzo..... FRA
2nd Agneta Jonsson..... SWE
3rd Diane Sissingh ..... AUS
4th Claudine Tatibouet..... FRA
5th Giovanna Lenci ..... ITA
Grand Masters
1st Michael Keeton ..... NZL
2nd Jeff Loosemore ..... AUS
3rd Terry Scutcher ..... GBR
4th Vanessa Dudley ..... AUS
5th Brett Wright ..... BER
Women Grand Masters
1st Vanessa Dudley..... AUS
2nd Ann Keates ..... GBR
3rd Lyndall Patterson..... AUS
4th Isabelle Arnoux ..... FRA
5th Lesley Reichenfeld ... CAN
Great Grand Masters
1st Keith Wilkins ..... GBR
2nd Robert Lowndes ..... AUS
3rd Peter Seidenberg .... USA
4th Jacky Nebrel ..... FRA
5th Bill Symes ..... USA
Women Great Grand Masters
1st Hilary Thomas..... GBR
Over 75 Masters
1st Peter Seidenberg .... USA
2nd Kerry Waraker ..... AUS
3rd Denis O'Sullivan ..... IRL
4th Ken Holliday ..... RSA
5th Peter Craig ..... AUS
Women Over 75 Masters
1st Deidre Webster ..... CAN

Laser 4.7
Masters
1st Stephen Walsh ..... AUS
2nd Akemi Nagaoka..... JPN
3rd Waltraud Schmitt .... FRA
4th Jean-Francois Farrugia FRA
Women Masters
1st Akemi Nagaoka..... JPN
2nd Waltraud Schmitt .... FRA

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 Decke ..... NZL
5th Alan Coutts ..... OMA

Masters
1st Al Clark ..... CAN
2nd Arnoud Hummel ..... NED
3rd Chris Dawson ..... AUS
4th Benoit Meesemaecker. FRA
5th Torbjörn 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 Roberson ..... AUS
4th Sandy Grigg ..... NZL
5th Stephen Wawn ..... AUS

Laser Radial

Apprentices
1st Jon Emmett ..... GBR
2nd Fabio Syama Ramos.. BRA
3rd Edmund Tam ..... NZL
4th Ian Gregory ..... GBR
5th Niall Peelo ..... GBR

Women Apprentices
1st Kimberly Couranz .... USA
2nd Alexandra Weihrauch . GER

Masters
1st Ian Jones ..... GBR
2nd Joao Ramos ..... BRA
3rd Martin Van Olffen .... NED
4th Matthias Bruehl ..... 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 Copplestone .... 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 Bruehl ..... 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 Keeton ..... 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 Taugher ..... 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 Colin Dibb ..... AUS
2nd Peter Vessella ..... USA
3rd Malcolm Courts ..... GBR
4th Lard Hansen ..... USA
5th Wolfgang Gerz ..... GER

Laser Radial

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

Women Apprentices
1st Buff Wendt..... USA
2nd 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 Pashutin ..... ISR
3rd Kathy Luciano..... USA

Great Grand Masters
1st Keith Wilkins ..... GBR
2nd Peter Seidenberg .... USA
3rd Jim Quinn ..... NZL
4th Lindsay Hewitt ..... USA
5th Michael Kinnear ..... GBR

2010 Hayling Island, GBR
Entries 354 Countries 31

Laser Standard

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

Masters
1st Scott Ferguson ..... USA
2nd 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 Bruehl ..... GER
4th Ian Jones ..... GBR
5th Edmund Tam ..... NZL

Women Apprentices
1st Caroline Muselet ..... CAN
2nd Rosie Tribe ..... GBR
3rd Brenda Hoult ..... GBR

Masters
1st Stephen 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 ..... GBR

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 ..... AUS

Masters
1st Scott Ferguson ..... USA
2nd Arnoud Hummel ..... NED
3rd Andrew Pimental .... USA
4th Mark Bear ..... USA
5th Jan Scholten ..... AUS

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 Bott ..... AUS
2nd Scott Leith ..... NZL
3rd Grant Willmott ..... AUS
4th Edmund Tam ..... NZL
5th Matthias Bruehl ..... GER

Women Apprentices
1st Alison Casey ..... AUS
2nd Yvonne Malmsten .... SWE
3rd Kimberley 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
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 Echavarri..... 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 Schlacter..... AUS
5th William Symes..... USA

Laser Radial
Apprentices
1st Mark . . . . . NZL
2nd Freek Miranda . . . . . NED
3rd Wilmar Groenendijk. . . NED
4th Matthias Bruehl . . . . . GER
5th David Early . . . . . AUS
Women Apprentices
1st Agnetta Jonsson . . . . . SWE
2nd Yvonne Malmsten . . . . SWE
3rd Christelle Marsault. . . . FRA
Masters
1st Greg Adams . . . . . AUS
2nd Robert Cage . . . . . GBR
3rd Martin Baltscheffsky . . FIN
4th John Reay . . . . . GBR
5th Richard Major . . . . . GBR
Women Masters
1st Lyndall Patterson. . . . . AUS
2nd Janet Kemp . . . . . AUS
3rd Claudine Tatibouet . . . FRA
Grand Masters
1st Peter Heywood . . . . . AUS
2nd Peter Whipp. . . . . GBR
3rd Alden Shattuck . . . . . USA
4th Ian Rawett . . . . . GBR
5th Serge Raphalen . . . . . 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 Baltscheffsky . . 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 Garaty . . . . . AUS
Masters
1st Alexander Nikolaev . . . RUS
2nd Adam French. . . . . AUS
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 Baltscheffsky . . FIN
4th Bulent Baha Akin. . . . . TUR
5th Claudio Gallizioli . . . . ITA
Women Apprentices
1st Yvonne Malmsten . . . . . SWE
Masters
1st Goran Bonacic. . . . . CRO
2nd Lyndall Patterson. . . . AUS
3rd Bruce Martinson . . . . . USA
4th Olivier Falque . . . . . FRA
5th Laurent Vigo . . . . . FRA
Women Masters
1st Lyndall Patterson . . . . . AUS
Grand Masters
1st 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 Holliday . . . . RSA
4th Denis O'Sullivan . . . . . IRL
5th David Flakelar . . . . . AUS

2003 Cadiz, ESP
Entries 236 Countries 27
Laser Standard
Apprentices
1st Mark Littlejohn . . . . . GBR
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 Malcolm 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 Baltscheffsky . . FIN
5th Luis Martin Propato . . . ARG
Women Apprentices
1st Roberta Hartley . . . . . GBR
2nd Yvonne Malmsten . . . . 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 Andrew 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 . . . . . USA
5th Peter Raymer . . . . . GBR
Women
1st Diane Burton . . . . . USA
2nd Jane Codman . . . . . USA
3rd Sally Sharp . . . . . USA
4th Yvonne Malmsten . . . . SWE
5th Debbie Phillips . . . . . GBR

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 Jean Luc Michon . . . . . FRA
Laser Radial Women
1st Roberta Hartley . . . . . GBR
2nd Lyndall Patterson. . . . AUS
3rd Claire Davison . . . . . GBR
4th Yvonne Malmsten . . . . SWE
5th Jan Kemp . . . . . AUS

2000 Cancun, MEX
Entries 147 Countries 20
Laser Standard
Apprentices
1st Alan Davis . . . . . GBR
2nd Alexandre Nikolaev . . RUS
3rd Terry Scutcher . . . . . GBR
4th Bill O'Hara . . . . . IRL
5th Martin Hallsten . . . . . SWE
Masters
1st Mark Bethwaite . . . . . AUS
2nd Rob Coutts . . . . . NZL
3rd Doug Peckover . . . . . USA
4th Jack Schlachter . . . . . AUS
5th Alan Keen . . . . . RSA
Grand Masters
1st Keith Wilkins . . . . . GBR
2nd Dick Tillmann. . . . . 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 Voos . . . . . 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 Sundeim . . . . . SWE
3rd Doug Peckover . . . . . USA
4th Jack Schlachter . . . . . AUS
5th Timothy Alexander . . . AUS
Grand Masters
1st Graham Oborn . . . . . 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 Inmon . . . . . 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 Berenguier. . . . . 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
5th Jacky Nebrel . . . . . FRA

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 Katsumi Hirano . . . . . JPN
5th Ian Rawet . . . . . 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 Blidner . . . . . 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 Blidner . . . . . SWE
3rd Christer Baath . . . . . SWE
4th Denis O'Sullivan . . . . . IRL
5th Peter Seidenberg . . . . CAN

Grand Masters

1st Friedhelm Lixenfeld . . . GER
2nd Jack Swenson . . . . . USA
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. . . . . USA
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 Philips . . . . . 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 . . . . USA
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 Alex McClure . . . . . AUS
2nd Doug Bates . . . . . NZL
3rd Alan Clark . . . . . AUS
4th Robert Saltmarsh . . . . USA
5th Alf Johnson . . . . . USA

1983 Gulfport, USA

Entries 70

Apprentices

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

Masters

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

Grand Masters

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

1982 Sardinia, ITA

Entries 82

Apprentices

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

1981 Bendor, FRA

Entries 52 Countries 11

Apprentices

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

Masters

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

Grand Masters

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

1980 Bendor, FRA

Entries 67 Countries 15

Apprentices

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

Masters

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

Grand Masters

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

International Laser Class Association

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 . . . . . .