

Lake Michigan PHRF[®] Multihull Handicap Certificate Application

Important notes and reminders.

Do not treat the measurements that you supply for your hull, rig or sails lightly. There are usually some slight differences in actual measurements from designed or allowed measurements that do not result in penalties or credits and in fact reflect the actual hull, rig and sail plan of the boat as shipped and equipped from the manufacturer. If you are unsure about measuring and reporting critical hull, rig and sail dimensions. Please see your sailmaker, LMPHRF Regional Handicapper or LMPHRF Club Representative.

Some Descriptive labels that are useful in completing an application for a Multihull handicap.

Construction Materials:	Fiberglass, Kevlar, Carbon Fiber, Aluminum, SS, Synthetic, Other
Prop Type:	Fixed 2 or 3 blade, Folding/Feathering 2 or 3 blade, Other
Prop Installation:	Outboard, Exposed Shaft, Sail drive, Other
Rudder Type:	Outboard, Inboard, In Cassette, Kick up, Other
Board Type:	Center board, Dagger board, Other

Measured Dimensions

Dimensions may be reported to the 100th of a foot and measures of displacement to the nearest pound.

Dimension	Description
I	Height of the foretriangle measured from the highest point of the sail attachment to the sheer line at the point abeam the mast. The of the sheer line is the intersection of the hull and deck
ISP	Measured from the highest halyard sheave to the shear line at the point abeam the mast.
J	Horizontal distance from the forestay attachment to the front surface of the mast
JC	Horizontal distance from the most forward attachment point of the bowsprit to the front surface of the mast
P	Maximum hoist of the mainsail, measured from the upper sheave to the top of the boom.
E	Maximum foot length of the mainsail, measured from the aft edge of the mast to the inner edge of the band on the boom.
SPL	Length of the symmetrical spinnaker pole from end to end.
LOA	Overall length of the boat.
LWL	Boats water line in measurement trim
Beam	Boats maximum width
Draft	Maximum draft of fixed keel, center board or dagger board
Displacement	Weight of water displaced by boats hull in measurement trim

A Sail Declaration and the Handicap Application is required for a LMPHRF Multihull handicap.

Contacting LMPHRF by mail, phone, fax and e-mail;

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Lake Michigan PHRF[®] Multihull Sail Plan Declaration

Boat Name _____ Hull Number _____ Sail Number _____

Owners Name _____ Boat Type _____ Phone Number _____

It is preferred to have a sail loft actually measure the sails, and fill out this sheet. As an alternative, a competitor may measure the sails. Please use feet and tenths of feet for measurement.

Mainsail

Year Built _____

Built By (Print Name of Sailmaker) _____

Head Width _____

Luff _____

Foot _____

MGT _____ (7/8 point girth)

MGU _____ (3/4 point girth)

MGM _____ (1/2 point girth)

$(\text{Foot} \times 2 + \text{MGM} \times 3 + 1.5 \times \text{MGU} + \text{MGT} + .5 \times \text{HW}) \times \text{Luff} / 8 = \text{SA}$

Spinnaker (the boats largest one)

Year Built _____

Built By (Print Name of Sailmaker) _____

Luff _____

Leech _____

Foot _____

Midgirth _____

$(\text{Luff} + \text{Leech}) \times (\text{Foot} + 4 \times \text{Mid Girth}) / 12 = \text{SA}$

Jib (the boats largest one)

Year Built _____

Built By (Print Name of Sailmaker) _____

Luff (Head to Tack) _____

LP _____

Midgirth _____

$(.5 \times \text{Luff}) \times \text{LP} = \text{SA}$

Screacher (the boats largest one)

Year Built _____

Built By (Print Name of Sailmaker) _____

Luff (Head to Tack) _____

LP _____

Midgirth _____

$(.5 \times \text{Luff}) \times \text{LP} = \text{SA}$

JC Bow Sprit Length _____

Owner/Measurer Signatures

Signed (Owner) _____ Date _____

Signed (Measurer) _____ Print Name _____

Measurer Company or Boat Name _____ Phone _____

Mainsail

a) The HEAD shall be defined as the point of intersection of the line of the Luff, including the boltrope, and the highest point of the sail perpendicular to the Luff. The Head Width shall be measured from the HEAD.

b) Luff is measured as the distance between two points along a line parallel to the sail Luff from which lines drawn at 90 degrees intersect the highest point on the HEAD or the lowest point on the Foot, respectively.

c) The Foot is measured as the two farthest points along the Foot.

d) The cross width measurements shall be taken from the seven-eighths, three-quarter, and one-half points on the Leech, located when the HEAD is folded to the Clew for the half height point, and when the HEAD is folded to the half height point to determine the three-quarter point. The seven-eighths point is located by folding the Head to the three-quarter point. Girth is measured as the shortest distance from Leech points to Luff, including the boltrope.

Spinnaker

e) For purposes of spinnaker measurement, the mid-girth shall be measured from the one-half point on the Luff to the one-half point on the Leech. These one-half points shall be found by folding the Head to the Tack for the one-half point on the Luff, and folding the Head to the Clew for the one-half point on the Leech.

Jib

f) For purposes of headsail measurement, the Tack is defined as the point where the Luff and Foot, if extended, would intersect each other. The Head is defined as the point of intersection of the line of the Luff, including the boltrope, and the highest point of the sail perpendicular to the Luff. The Clew is the point where the Leech and Foot, if extended, would intersect each other.

g) The diagonal (LP) is defined as the shortest distance from the Luff to the Clew.

h) The mid-girth is measured by folding the Head to the Clew to find the mid-leech. The distance from the mid-leech to the closest point on the Luff is the mid-girth

Screacher

i) For purposes of Screacher measurement, the Tack is defined as the point where the Luff and Foot, if extended, would intersect each other. The Head is defined as the point of intersection of the line of the Luff, including the boltrope, and the highest point of the sail perpendicular to the Luff. The Clew is the point where the Leech and Foot, if extended, would intersect each other.

j) The diagonal (LP) is defined as the shortest distance from the Luff to the Clew

k) **JC (J Corrected)** is the distance from the front of the mast to the most forward attachment point on the bow sprit.