

ILCA SAIL SETTINGS 2024-2028

INTERNATIONAL
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ILCA International
Laser Class
Association



LASER SAIL SETTINGS CHART 2024

INSTRUCTIONS

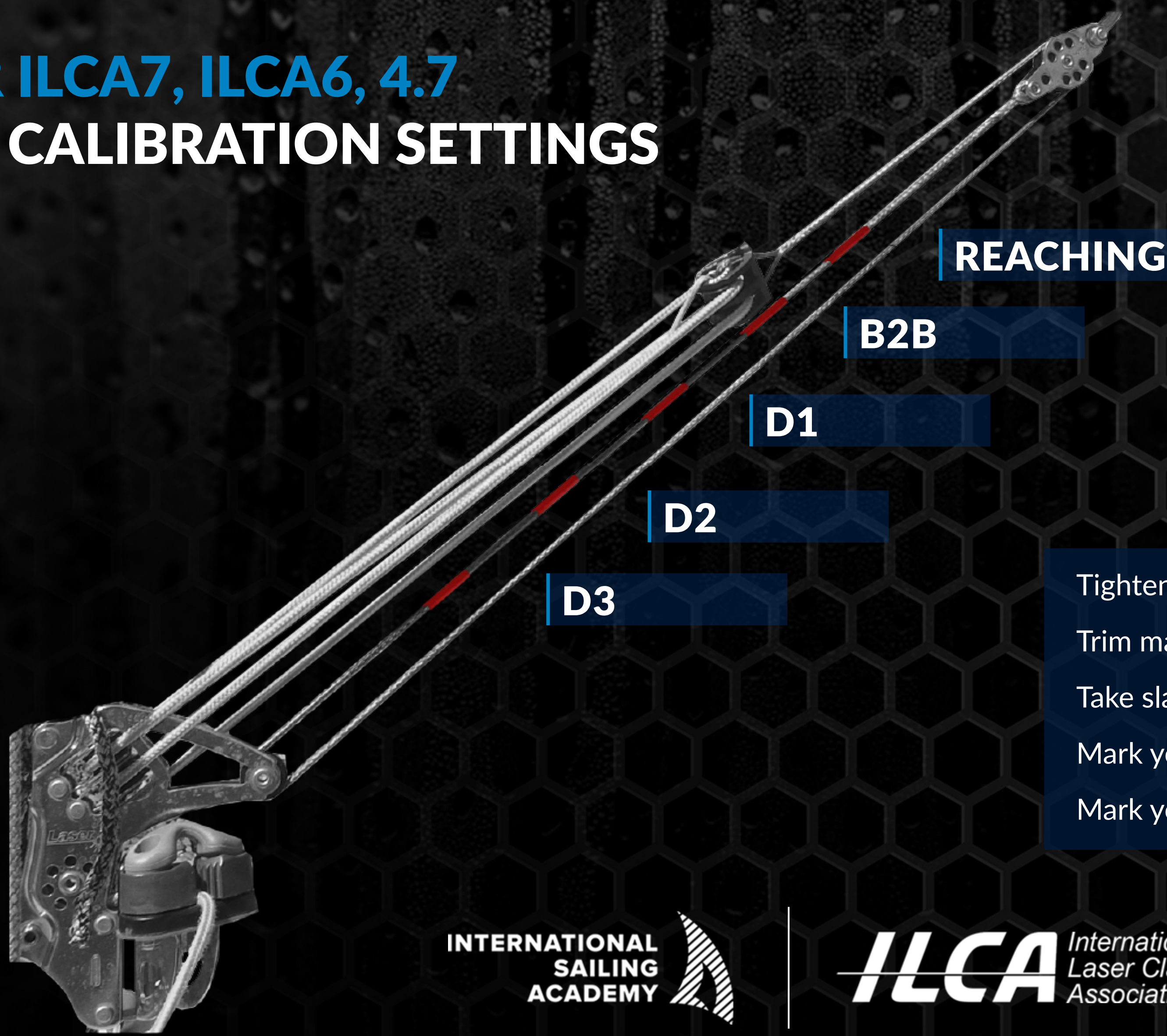
To set B2B vang, maximally tighten traveler and sheet, then remove slack from vang

Vang settings with numbers indicate quantity of line aft of the cleat past B2B setting on vangs w/ one purchase removed

Measure outhaul depth from boom cleat to sail

LASER ILCA7, ILCA6, 4.7

VANG CALIBRATION SETTINGS



REACHING

B2B

D1

D2

D3

Tighten traveler & outhaul to upwind settings
Trim mainsheet in block to block
Take slack out of vang
Mark your B2B setting with tape across from the moving block
Mark your other settings, one tape width away

IMPERIAL SETTINGS

(INCHES)



ILCA7

UPWIND SAIL SETTINGS: FLAT WATER

 UNITS: INCHES

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Slight Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Survival</i>
Body Position	Drifter	Sitting / Leaning Out	Marginal Hiking	Normal Hiking	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Tight	Medium	Medium	Medium
Vang	Match Sheet	B2B	B2B+ 1"	B2B+ 2"	D1	D2	D3-D3+	D2
Cunningham	Pull & Release	De-wrinkle	De-wrinkle	Light Tension	Medium Tension	Heavy Tension	Max	Max
Outhaul	7"	7"-8"	7"-8"	6"	4"	3"	Starting to touch boom	Starting to touch boom
Mainsheet	4-9"	B2B-4"	B2B--3"	B2B	B2B-3"	B2B-3"	Vang Sheeting	Vang sheeting
	LOW DRAG	HIGH DRAG				LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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ILCA7

UPWIND SAIL SETTINGS: CHOP

 UNITS: INCHES

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Depower 1</i>	<i>Depower 2</i>	<i>Depower 3</i>	<i>Survival</i>
Body Position	Drifter	Sitting / Leaning Out	Marginal Hiking	Normal Hiking	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Tight	Medium	Medium	Medium
Vang	Match Sheet	B2B+ 1"	B2B+ 2"	B2B+ 3"	D1	D2	D3-D3+	D2, bit of twist, dry boom
Cunningham	Pull & Release	De-wrinkle	De-wrinkle	Light Tension +	Medium Tension +	Heavy Tension	Max	Max
Outhaul	7"	7-8"	7-8"	6"	4"	3"	Starting to touch boom	Starting to touch boom
Mainsheet	4-9"	B2B-4"	B2B+3	B2B	B2B-3"	B2B-3"	Vang Sheeting	Vang sheeting
	LOW DRAG		HIGH DRAG			LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vang with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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UPWIND SAIL SETTINGS: FLAT WATER

 UNITS: INCHES

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Survival</i>
Body Position	Drifter	Sitting / Leaning Out	Marginal Hiking	Normal Hiking	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Tight	Medium	Medium	Medium
Vang	Match Sheet	B2B	B2B+ 2"	B2B+ 4"	D1	D2	D3-D4+	D2
Cunningham	Pull & Release	De-wrinkle	De-wrinkle	Light Tension	Medium Tension	Heavy Tension	Max	Max
Outhaul	5"	6"	6"	5"	4"	3"	2"	Starting to touch boom
Mainsheet	4-9"	B2B-4"	B2B-3"	B2B	B2B-3"	B2B-3"	Vang Sheeting	Vang sheeting
	LOW DRAG		HIGH DRAG			LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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ILCA6

UPWIND SAIL SETTINGS: CHOP

 UNITS: INCHES

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Survival</i>
Body Position	Drifter	Sitting / Leaning Out	Marginal Hiking	Normal Hiking	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Tight	Medium	Medium	Medium
Vang	B2B	B2B+ 1"	B2B+ 3"	B2B+ 6"	D1	D2	D3-D4+	D2
Cunningham	Pull & Release	De-wrinkle	De-wrinkle +	Light Tension +	Medium Tension	Heavy Tension	Max	Max
Outhaul	5"	6"	6"	5"	4"	3"	2"	Starting to touch boom
Mainsheet	4-9"	B2B-4"	B2B-4"	B2B-1"	B2B-4"	B2B-6"	Vang Sheeting	Vang sheeting
	LOW DRAG		HIGH DRAG			LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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UPWIND SAIL SETTINGS: ALL CONDITIONS

 UNITS: INCHES

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Slight Depower</i>	<i>Depower</i>	<i>Depower 2</i>	<i>Survival</i>
Body Position	Drifter / Leaning In	Sitting / Leaning Out	Marginal Hike	Normal Hike	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Medium	Medium	Medium	Medium
Vang	Match Sheet	B2B	B2B	B2B+2"	D1-D2	D2	D2-D3	D2, bit of twist, dry boom!
Cunningham	De-wrinkle	Light Tension	Light Tension +	Med Tension	Med. Tension +	Heavy Tension	Max	Max
Outhaul	5"	6"	6"	5"	4"	3"	2"	Starting to touch boom
Mainsheet	4"-9"	1"-4"	B2B-1"	B2B	B2B-3"	Vang Sheeting	Vang Sheeting	Vang Sheeting
	LOW DRAG	HIGH DRAG				LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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DOWNWIND SAIL SETTINGS

 UNITS: INCHES

	LIGHT	LIGHT+	MEDIUM	HEAVY	SURVIVAL
Wind Range (knots)	0-4	4-8	8-16	16-25	25+
Vang	Max Ease	4"	6" / Battens Moving	7-8" / Battens Moving / Numbers	9"
Outhaul	10"	10"	8"	8"	3"
Cunningham	Off	Off	Off	Off	Off
Traveler	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting
Daggerboard	8"	8"	8"	8"	8"

* Outhaul depth measured as distance from boom cleat center to sail with some pressure in sail.

** Daggerboard height is measured at the leading edge from the top of daggerboard case to top of board.

*** Vang tension is measured by amount of line showing aft of the cleat before the handle with one purchase removed. (12-1)

**** To account for full purchase vang systems (15-1), tension 2" of additional line for each setting.



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ILCA6

DOWNWIND SAIL SETTINGS

 UNITS: INCHES

	LIGHT	LIGHT+	MEDIUM	HEAVY	SURVIVAL
Wind (knots)	0-4	4-8	8-16	16-25	25+
Vang	Max Ease	4"	6" / Battens Moving	7-8" / Battens Moving / Numbers	9"
Outhaul	10"	10"	8"	8"	3"
Daggerboard	8"	8"	8"	8"	6"
Cunningham	Off	Off	Off	Off	Off
Traveler	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting

* Outhaul depth measured as distance from boom cleat center to sail with some pressure in sail.

** Daggerboard height is measured at the leading edge from the top of daggerboard case to top of board.

*** Vang tension is measured by amount of line showing aft of the cleat before the handle with one purchase removed. (12-1)

**** To account for full purchase vang systems (15-1), tension 2" of additional line for each setting.



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DOWNWIND SAIL SETTINGS

 UNITS: INCHES

	LIGHT	LIGHT+	MEDIUM	HEAVY	SURVIVAL
Wind (knots)	0-4	4-8	8-16	16-25	25+
Vang	Max Ease	2"	4-6" / Battens Moving	6-8" / Battens Moving / Numbers	7-9"
Outhaul	9"	9"	7"	5"	3"
Daggerboard	8"	8"	8"	8"	6"
Cunningham	Off	Off	Off	Off	Off
Traveler	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting

* Outhaul depth measured as distance from boom cleat center to sail with some pressure in sail.

** Daggerboard height is measured at the leading edge from the top of daggerboard case to top of board.

*** Vang tension is measured by amount of line showing aft of the cleat before the handle with one purchase removed. (12-1)

**** To account for full purchase vang systems (15-1), tension 2" of additional line for each setting.



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METRIC SETTINGS

(CENTIMETERS)



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UPWIND SAIL SETTINGS: FLAT WATER

 UNITS: CENTIMETERS

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Slight Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Survival</i>
Body Position	Drifter	Sitting / Leaning Out	Marginal Hiking	Normal Hiking	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Tight	Medium	Medium	Medium
Vang	Match Sheet	B2B	B2B+2.5	B2B+5	D1	D2	D3-D3+	D2
Cunningham	Pull & Release	De-wrinkle	De-wrinkle	Light Tension	Medium Tension	Heavy Tension	Max	Max
Outhaul	18	18-20	18-20	15	10	7.5	Starting to touch boom	Starting to touch boom
Mainsheet	10-23	B2B -10	B2B-7.5	B2B	B2B-7.5	B2B-7.5	Vang Sheeting	Vang sheeting
	LOW DRAG	HIGH DRAG				LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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UPWIND SAIL SETTINGS: CHOP

 UNITS: CENTIMETERS

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Depower 1</i>	<i>Depower 2</i>	<i>Depower 3</i>	<i>Survival</i>
Body Position	Drifter	Sitting / Leaning Out	Marginal Hiking	Normal Hiking	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Tight	Medium	Medium	Medium
Vang	Match Sheet	B2B+2.5	B2B+5	B2B+7.5	D1	D2	D3-D3+	D2
Cunningham	Pull & Release	De-wrinkle	De-wrinkle	Light Tension +	Medium Tension +	Heavy Tension	Max	Max
Outhaul	18	18-20	18-20	15	10	7.5	Starting to touch boom	Starting to touch boom
Mainsheet	10-23	B2B -10	B2B-7.5	B2B	B2B-7.5	B2B-7.5	Vang Sheeting	Vang sheeting
	LOW DRAG		HIGH DRAG			LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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ILCA6

UPWIND SAIL SETTINGS: FLAT WATER

 UNITS: CENTIMETERS

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Survival</i>
Body Position	Drifter	Sitting / Leaning Out	Marginal Hiking	Normal Hiking	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Tight	Medium	Medium	Medium
Vang	Match Sheet	B2B	B2B+ 5	B2B+ 10	D1	D2	D3-D4+	D2
Cunningham	Pull & Release	De-wrinkle	De-wrinkle	Light Tension	Medium Tension	Heavy Tension	Max	Max
Outhaul	13	15	15	13	10	8	5	Starting to touch boom
Mainsheet	10-23	B2B-10	B2B-8	B2B	B2B-8	B2B-8	Vang Sheeting	Vang sheeting
	LOW DRAG	HIGH DRAG				LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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ILCA6

UPWIND SAIL SETTINGS: CHOP

 UNITS: CENTIMETERS

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Depower</i>	<i>Survival</i>
Body Position	Drifter	Sitting / Leaning Out	Marginal Hiking	Normal Hiking	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Tight	Medium	Medium	Medium
Vang	B2B	B2B+ 2.5	B2B+ 7.5	B2B+ 15	D1	D2	D3-D4+	D2
Cunningham	Pull & Release	De-wrinkle	De-wrinkle +	Light Tension +	Medium Tension	Heavy Tension	Max	Max
Outhaul	13	15	15	13	10	8	5	Starting to touch boom
Mainsheet	10-23	B2B-10	B2B-10	B2B-2.5	B2B-10	B2B-15	Vang Sheeting	Vang sheeting
	LOW DRAG	HIGH DRAG				LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

*** Wind speeds are not specified due to differences in sailor weight, skill and rig choices. Always strive for an optimized boat when setting your Laser sail.



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ILCA4

UPWIND SAIL SETTINGS: ALL CONDITIONS

 UNITS: CENTIMETERS

	LIGHT		MEDIUM			HEAVY		
	<i>Power Seek</i>	<i>Power Seek</i>	<i>Power Seek</i>	<i>No Depower</i>	<i>Slight Depower</i>	<i>Depower</i>	<i>Depower 2</i>	<i>Survival</i>
Body Position	Drifter / Leaning In	Sitting / Leaning Out	Marginal Hike	Normal Hike	Best Hiking	Best Hiking	Best Hiking	Best Hiking
Traveler	Tight	Tight	Tight	Tight	Medium	Medium	Medium	Medium
Vang	Match Sheet	B2B	B2B	B2B+5	D1-D2	D2	D2-D3	D2, bit of twist, dry boom!
Cunningham	De-wrinkle	Light Tension	Light Tension +	Med Tension	Med. Tension +	Heavy Tension	Max	Max
Outhaul	13	15	15	13	10	7.5	5	Starting to touch boom
Mainsheet	10-23	2.5-10	B2B-2.5	B2B	B2B-7.5	Vang Sheeting	Vang Sheeting	Vang Sheeting
	LOW DRAG	HIGH DRAG				LOW DRAG		

* Vang settings with numbers indicate quantity of line past the cleat from B2B setting on vangs with one purchase removed.

** Outhaul measurements indicate distance from boom to old outhaul cleat w/ correct sheet tension.

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ILCA7

DOWNWIND SAIL SETTINGS

 UNITS: CENTIMETERS

	LIGHT	LIGHT+	MEDIUM	HEAVY	SURVIVAL
Wind Range (knots)	0-4	4-8	8-16	16-25	25+
Vang	Max Ease	10	15 / Battens Moving	18-20 / Battens Moving / Numbers	23
Outhaul	25.5	25.5	20	20	7.5
Cunningham	Off	Off	Off	Off	Off
Traveler	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting
Daggerboard	20	20	20	20	20

* Outhaul depth measured as distance from boom cleat center to sail with some pressure in sail.

** Daggerboard height is measured at the leading edge from the top of daggerboard case to top of board.

*** Vang tension is measured by amount of line showing aft of the cleat before the handle with one purchase removed. (12-1)

**** To account for full purchase vang systems (15-1), tension 2" of additional line for each setting.



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ILCA6

DOWNWIND SAIL SETTINGS

 UNITS: CENTIMETERS

	LIGHT	LIGHT+	MEDIUM	HEAVY	SURVIVAL
Wind (knots)	0-4	4-8	8-16	16-25	25+
Vang	Max Ease	10	15 / Battens Moving	18-20 / Battens Moving / Numbers	23
Outhaul	25	25	20	20	7.5
Daggerboard	20	20	20	20	20
Cunningham	Off	Off	Off	Off	Off
Traveler	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting

* Outhaul depth measured as distance from boom cleat center to sail with some pressure in sail.

** Daggerboard height is measured at the leading edge from the top of daggerboard case to top of board.

*** Vang tension is measured by amount of line showing aft of the cleat before the handle with one purchase removed. (12-1)

**** To account for full purchase vang systems (15-1), tension 2" of additional line for each setting.



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ILCA4

DOWNWIND SAIL SETTINGS

 UNITS: CENTIMETERS

	LIGHT	LIGHT+	MEDIUM	HEAVY	SURVIVAL
Wind (knots)	0-4	4-8	8-16	16-25	25+
Vang	Max Ease	5	10-15/ Battens Moving	15-20 / Battens Moving / Numbers	18-23
Outhaul	23	23	18	13	7.5
Daggerboard	20	20	20	20	20
Cunningham	Off	Off	Off	Off	Off
Traveler	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting	Upwind Setting

* Outhaul depth measured as distance from boom cleat center to sail with some pressure in sail.

** Daggerboard height is measured at the leading edge from the top of daggerboard case to top of board.

*** Vang tension is measured by amount of line showing aft of the cleat before the handle with one purchase removed. (12-1)

**** To account for full purchase vang systems (15-1), tension 2" of additional line for each setting.



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