



Let's talk about this sport that we all live, eat, drink, breathe, and love..

The sport of wake encompasses a certain special feeling. It is a feeling that is hard to replicate just anywhere. That feeling of sliding on glassy water. That feeling of edging into a wake. That feeling of letting go of the rope on a surfboard. That feeling of elevating out of the water into the new realm of silence above the surface. That feeling when you anticipate the handle click past the tower.

It's those feelings that keep bringing us back to putting a board under our feet and spending time with friends and family conquering new challenges together. Without community and togetherness, there is just something missing. That sort of comradery and 'team vibes' are what pushes us past our comfort zones and get us trying new things.

We realize that we are nothing without our customers and supporters. That fact allows us to remember that day in '95 when a new type of board to ride sideways on the water was built. It wasn't just about making fun toys to enjoy. It was creating a new type of feeling of flow on the water. That feeling we get being pulled behind a boat just never goes away.

This year we are celebrating and inviting the world to regroup as water enthusiasts and remember what pulls you in the sport of Pull. What is it that gets you on the water day in and day out? Strive to push your boundaries on the water and do it with the people you love.

Our team of top global athletes are the prime example of what it's like to Feel The Pull. After spending more and more time with these unique individuals, you come to realize just how special they are. Not only are they top athletes in their fields but they hold this feeling we are talking about closer than most others. They build each other up, teach others how to ride, create new ways to ride, and are happy sliding on water sideways.

This season, we are giving you some new tools to help pull you deeper into the sport. Our designers created new wake surfboards, updates to some of our most iconic park boards, and a little extra bonus on the Tao Wake Skate. We can't wait for you to experience the new life that we have given to the 2024 collection.

Relentless Innovation will always be what we strive for at Liquid Force; Feeling the pull will help us get there.

Join us this year as we capture and celebrate the common joy we all share in this sport, and Feel The Pull together.



Joe Highfill Creative Director

## TEAM WAKEBOARDS

Tech 07
Men's Park 11
Women's Park 11
Men's Boat 12
Women's Boat 12
Aero Core 12

05

### NO. 027 RELENTLESS INNOVATION

#### LIQUID FORCE WAKEBOARDS

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facebook.com/liquidforcewake instagram.com/liquidforcewake instagram.com/liquidforcepark

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31+14R/1

IT'S THE ENDORPHINS PUMPING THROUGH OUR VEINS.

THE NERVES TRIGGERING BENEATH OUR SKIN,

OUR HEARTS RACING OUT OF OUR CHESTS

AND THE PEOPLE AROUND US CHEERING US ON.

SUPPLYING THE FEELS SINCE '95

LIQUID EODCE

MV















































aspects of wakeboarding. Wakesurfing and foiling's finest such as Bailey Dunn, Jake Caster and others are also here to dedicate their passion and livelihood to offer you the most innovative, game changing and highest quality products on the water. The dedication runs deep within our team and it shows in everything they do on and off the water. Feeling The Pull is everything this team encompasses. Together, they help bring you the best LF'n riding and good times possible on this planet!



The heart and soul of Liquid Force lies behind the faces that ride our products harder than any other humans on the planet. The LF team is the most complete group of athletes who check every box in every possible field, while eating, sleeping and breathing all things wake. From the Swiss army knife of do it all Guenther Oka, to the park and skate icon of Daniel Grant, to the most explosive and dominate women's park rider Claudia Pagnini, to the most impactful boat rider ever Harley Clifford, to the queen of wake Meagan Ethell, to the most creative rider to date Felix Georgii; the global LF team owns all

# CONSTRUCTIO

**CNC WOOD CORE** 

#### AERO CORE

#### PRECISION PU CORE



01. TOP SHEET

02. FIBER GLASS

06. C4 QUAD
CARBON STRIPS

07. CNC DIVINYCELL
CORE

02. FIBER GLASS

08. DURA BASE

01. TOP SHEET

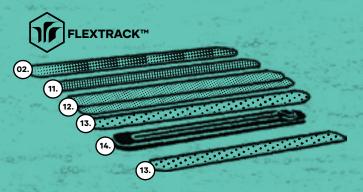
02. FIBER GLASS

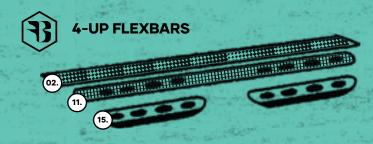
09. PRECISION CAST PU CORE

02. FIBER GLASS

10. NEXUS BASE

#### **ATTACHMENTS**





### **GLOSSARY OF TERMS**



#### 01. TOP SHEET

Proctective graphic layer provides durability, UV protection & great looks.



#### 02. FIBER GLASS

Various combination of fiberglass weaves give each LF model its unique feel, strength, and flex.



#### 03. PAULOWNIA WOOD CORE

Lightweight sustainable paulownia wood provides the right core for the unique feel and lively response and rebound in all LF park boards.



#### **04. LIQUID RAIL**

This elastomeric sidewall provides additional flex, rail bond, and durability.



#### **05. SINTERED GRIND BASE**

LF uses the most durable sintered Grind base material for extended life for park session after session.



#### 06. C4 QUAD CARBON STRIPS

Multi-strand carbon tape provides the strongest, lightest and liveliest reinforcement to our AeroCore™ models.



#### 07. AERO™ CORE

Lightweight high compressive strength foam is CNC milled to create the heart of all LF Aero-Cores™.



#### 08. DURA BASE

A durable proctective graphic layer made from different materials depending upon the hull shape of the the board and where it is ridden.



#### 09. PRECISION CAST PU CORE

Molded polyurethane foam creates the center of our standard performance boat boards.



#### 10. NEXUS BASE

Lightweight graphic fabric layer for crisp hull contours and molded-in fins.



#### 11. FIBER GLASS RETENSION STRIP

Glass layer for insert and Flex-Track™ retension and flex control between feet.



#### 12. ENGINEERED GLASS LAYER

FlexTrack™ reinforcement.



#### 13. DAMPENING LAYER

Reinforcement layer for insert retention and flex control between feet.



#### 14. FLEXTRACK™

Glass reinforced FlexTrack™ flexes and twists as you ride, and allows for customizable stance choice.



#### 15. 4 UP FLEX BAR INSERTS

Longer flexible inserts bars offer improved 4 position stance options.



#### 16. BIO RESIN

Our new Bio Resin uses Green Chemistry and renewable raw materials to reduce the environmental impact of production

#### CORE CONFIGURATION



#### **CNC CORE**

Precision CNC'd to give you the most optimized mixture of strength, flex, rebound, and control.



#### "SPLIT" CORE

An enhanced profiled core with sharper channels to add more control.



#### **PROFILED CORE**

Profiled thickness taper to optimize flex between the feet and in the tips for every rider's size, weight, and use.



#### PRECISION CAST **PU CORE**

Perfectly sized polyurethane core to optimize the strength to weight ratio of the lamination.

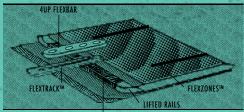
#### PARK BOARD CONSTRUCTION

#### **ATOMIC**



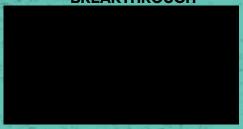
CNC'D WOOD CORE

#### **DURA-FLEX**



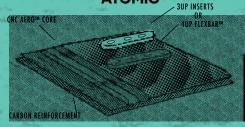
CNC & PROFILED SPLIT CORE

#### **BREAKTHROUGH**



#### **BOAT BOARD CONSTRUCTION**

**ATOMIC** 



**DURA** 



RREAKTHROUGH



#### THREE STAGE

Flatter center curve for speed & rail control. Exaggerated exit angle through tip gives a bucking pop off the wake.



#### ROCKER TECH

#### CONTINUOUS

Flowing transitions into turns and long trajectory arc off the wake.



#### **HYBRID**

Blends two curves together for improved performance and consistant feel through the smooth center curve.



### FLEX ZONE CHARACTERISTIC



#### **LINEAR AXIS FLEX**

Liquid Rail strategically placed longitudinally in the tips to give the board an independent flex from center to rail.



#### **DUAL AXIS FLEX**

Adding a horizontal element across the Flex zone to give maximum press ability to the tips.



#### **MULTIPLE AXIS FLEX**

A third axis of flex giving the rider the most vibrant torsional response and rebound. Along with having the same feeling as the 2D Flex, the 3D flex gives a more connected feel to the rider to where you can feel the flex through your feet and out to the tips and tails.



THE NEW

## PEAK

PARK SPACE-FRAME & STEP DECK DESIGN



- Unique Design Provides Torsional Regidity
- Tip Taper Works With Step Deck
   For Max Flex Potential



#### **Stiff Center**

Sets Foundation Of Control & Edging Power

#### Mid-Flex Beneath The Feet

Flex Beneath Your Feet That Responds & Reacts

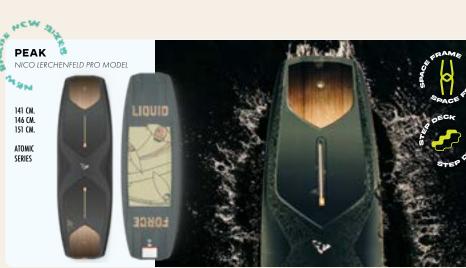
#### **Max Flex At Tips**

Less Material For More Playful Tip & Tail











FLEXTRACK | CONTINUOUS ROCKER | LIQUID RAILS JUST THE TIP TECH | LIFTED RAIL DESIGN

137 CM. 142 CM. 147 CM. 152 CM. DURA-FLEX SERIES

4.UP FLEXBAR INSERTS | 3.STAGE ROCKER | LIQUID RAILS HOTBOX TECHNOLOGY | STEP DECK



FLEXTRACK | 3-STAGE ROCKER | LIQUID RAILS STEP DECK | PARK SPACE FRAME

**BUTTERSTICK PRO** 

140 CM. 144 CM. 148 CM. 152 CM. DURA-FLEX

SERIES



**HOLIDAY** CLAUDIA PAGNINI PRO MODEL 134 CM 138 CM. 142 CM. 146 CM. DURA-FLEX SERIES



4UP FLEXBAR INSERTS | 3-STAGE ROCKER | NARROWER SHAPE CNC/PROFILED CORE | LIFTED RAIL DESIGN | LIQUID RAILS

139 CM.

144 CM.

149 CM.

**APEX** LOIC DESCHAUX PRO MODEL 4UP FLEXBAR INSERTS | CONTINUOUS ROCKER CNC/PROFILED CORE | LIFTED RAIL DESIGN DURA-FLEX

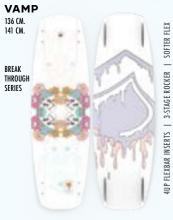
**BUTTERSTICK** 135CM 140CM 145CM 150CM BREAK THROUGH SERIES

3-STAGE ROCKER | 2D FLEXZONE

**4UP FLEXBAR INSERTS** 

FLX 135 CM. 139 CM. 143 CM. 147 CM. THROUGH SERIES





**RANT** 120 CM. 125 CM. 130 CM. 4UP FLEXBAR INSERTS | HYBRID ROCKER CNC/PROFILED CORE | LIFTED RAIL DESIGN DURA-FLEX SERIES



150 CM. 145 CM. 140 CM. 135 CM.

3UP INSERTS | CONTINUOUS ROCKER | PU CORE | SPACE FRAME

3UP INSERTS | 3-STAGE ROCKER | AERO CORE | C4 QUAD CARBON





3UP INSERTS | 3-STAGE ROCKER | AERO CORE C4 QUAD CARBON | THERMALINK



3UP INSERTS | CONTINUOUS ROCKER | AERO CORE SPACE FRAME | CX2 DUAL CARBON



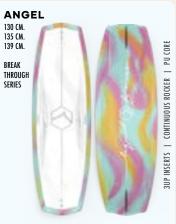


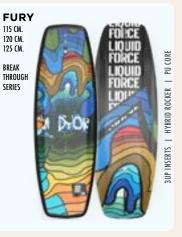














## BINDING



The #1 choice of the worlds top cable riders! The Liquid Force 4D™ chassis delivers a precise, responsive ride like no other binding system. The 4D™ chassis features the patent protected 45° angle attachment unique to LIQUID FORCE. Paired with the LIQUID FORCE Flextrack™, the 4D™ system bindings are the ultimate ride for cable riders of any ability.

**01. IMPROVED TREK TERRA LINER** 

Upgraded upper cuff, new lace design, adjusted toe box for better fit, built in heel cup, and more rubber tread with built in lugs.

02. DUAL DENSITY FOAM CONSTRUCTION

Firm HD foam skin provides structural support, while low density foam surrounds and conforms to your foot for a comfortable and se cure locked in feeling.

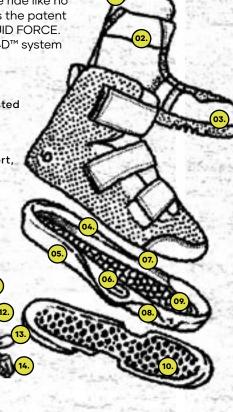
03. DRAINAGE HOLES

water can escape with ease with provided drainage holes.

04. FRAME RAIL

Frame rail geometry, combined with glass filled nylon construction and honeycomb cross bracing makes the 4D™ chassis the stiffest, lightest, most responsive binding ever.

05. 4D™ CHASSIS 4D™ chassis has the smallest footprint which allows the board to per-form at its truest flex with maximum





The Liquid Force 6X™chassis system is a state of the art 6 inch Wide binding. Created by a dream team of world class athletes and Relentless designers, the liquid force 6X™ chassis is the foundation for new family of lightweight, comfortable and responsive bindings. Compatible with any wake board, the 6X™ chassis delivers fun and performance for boat and cable riders alike.

MPROVED TREK TERRA LINER

Upgraded upper cuff, new lace design, toe box for better fit, built in heel cup, and more rubber tread with built in lugs.

**02. DUAL DENSITY FOAM** 

Firm HD foam skin provides structural support, while low density foam surrounds and conforms to your foot for a comfortable and secure locked in feeling.

**03. DRAINAGE HOLES** 

Water can escape with ease with provided drainage holes.

04. 6X™ CHASSIS

The Liquid Force 6X™ packs comfort, support and performance in a stiff light weight package.



**06. LOCKING STANCE ADJUSTMENT** 

Stance angles are fully locked in from 0-18° with mirco adjustable teeth. Nylon angle locks secure your custom stance.

#### **07. GLUE-LESS LOCKING FRAME**

The 6X chassis system features a glue less locking frame upper assembly. Our more sustainable assembly process reduces negative environmental impacts during production.

#### 08. 45° ANGLE ATTACHMENT

45° angle attachments under foot increases leverage creating better board response.

#### 09. HONEYCOMB FLEX FLOOR

6X™ chassis exclusive honeycomb Flex-Floor absorbs high impact landings and returns energy creating a more responsive

#### 10. CHASSIS DAMPENING SYSTEM

Light weight honey comb base provides shock reduction, water drainage and more grip for a superior stick to the board.

#### 11. STAINLESS STEEL M6 HARDWARE

Plated M6 316 stainless steel screws for a secure connection to your board

#### 12. WASHERS

Plastic washer for a tighter hold.

#### 13. ANGLE LOCK

Gives a secure hold in any stance angle you choose.

#### 14. TRACK MOUNTING HARDWARE

Improved stainless steel hardware with provides a locked in binding to board inter-

#### **05. FRAME RAIL WING GEOMETRY**

Integrated frame rail wing geometry makes the 6X the stiffest 6-inch chassis available. The glass filled nylon construction and honeycomb cross bracing makes the 6X™ chassis the stiffest, lightest, most responsive 6 inch binding ever.

#### **06. LOCKING STANCE ADJUSTMENT**

Locking stance adjustment stance angles are fully locked in from 0-18° with micro adjustable teeth. Nylon angle locks are compatible with the Liquid Force 6R chassis system.

#### **07. 6" WIDE ATTACHMENT**

The 6X™ chassis is universally compatible with all insert and Liquid Force flex track boards!

#### **08. HONEYCOMB FLEX FLOOR**

6X™ chassis exclusive honeycomb Flex-Floor absorbs high impact landings and returns energy creating a more responsive

#### 09. GLUE-LESS LOCKING FRAME

The 6X chassis system features a glue less locking frame upper assembly. Our more sustainable assembly process reduces negative environmental impacts during production.

#### 10. CHASSIS DAMPENING SYSTEM

Light weight honey comb base provides shock reduction, water drainage and more grip for a superior stick to the board.

11. STAINLESS STEEL M6 HARDWARE Plated M6 316 stainless steel screws for a secure connection to your board.

## TECHNOLOGY

The Liquid Force 6X<sup>™</sup> Open Toe Chassis System is a state of the art 6 inch binding. The LIQUID FORCE 6X<sup>™</sup> Open Toe is new, easy to use, lightweight, comfortable and responsive. Compatible with any wake board, the 6X<sup>™</sup> chassis delivers fun and performance for beginners, intermediates and advanced riders.

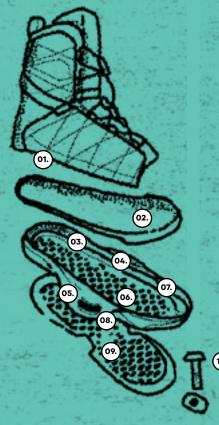
- 01. TWO STAGE CUSHIONING SYSTEM Impact EVA and Honeycomb Flexfloor™ provide comfort and support.
- **02. 6X IMPACT EVA MIDSOLE**Nylon injected toe cap gives response and structure.
- 03. 6X™ CHASSIS

The LIQUID FORCE 6X™ packs comfort, support and performance in a stiff light weight package.

04. FRAME RAIL WING GEOMETRY
Integrated frame rail wing geometry
makes the 6X the stiffest 6-inch chassis available. The glass filled nylon
construction and honeycomb cross
bracing makes the 6X™ chassis the
stiffest, lightest, most responsive 6 inch
binding ever.

**05. 6" WIDE ATTACHMENT** 

The 6X™ chassis is universally compatible with all insert and LIQUID FORCE Flex Track boards!



06. HONEYCOMB FLEX FLOOR

6X™ chassis exclusive honeycomb FlexFloor absorbs high impact landings and returns energy creating a more responsive feel.

**07. GLUE-LESS LOCKING FRAME** 

The 6X chassis system features a glue less locking frame upper assembly. Our more sustainable assembly process reduces negative environmental impacts during production.

**08. LOCKING STANCE ADJUSTMENT** 

Locking stance adjustment stance angles are fully locked in from 0-18° with micro adjustable teeth. Nylon angle locks are compatible with the Liquid Force 6R chassis system.

**09. CHASSIS DAMPENING SYSTEM** 

Light weight honey comb base provides shock reduction, water drainage and more grip for a superior stick to the board

10. STAINLESS STEEL M6 HARDWARE
Plated M6 316 stainless steel screws for a
secure connection to your board.



The 6R bindings reimagines performance and maximum comfort for beginners and intermediate riders. The 6R chassis delivers the benefits of our advanced binding technology in a new easy to use package. 6R chassis is a stable and supportive platform ideal for aspiring riders of any age. The 6R delivers wakeboarding fun for everyone in the boat.

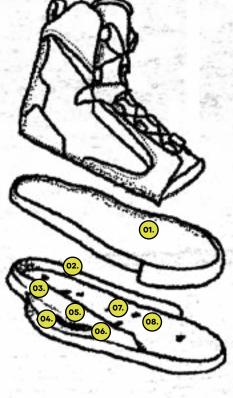
- 01. TWO STAGE CUSHIONING SYSTEM Impact EVA and Honeycomb Flexfloor™ provide comfort and support.
- 02. GLUE-LESS LOCKING FRAME

The 6R chassis system features a glue less locking frame upper assembly. Our more sustainable assembly process reduces negative environmental impacts during production.

03. 6R™ CHASSIS

The 6R chassis delivers advanced technology in a new easy to use and fun to ride package.

04. LOCKING STANCE ADJUSTMENT
Stance angles are fully locked in from
0-18° with micro adjustable teeth. Nylon angle locks are compatible with the
Liquid Force 6X chassis system.



**05. 6" WIDE ATTACHMENT** 

The 6R™ chassis is universally compatible with all inserts and Liquid Force Flextrack™ boards!

**06. FRAME RAIL WING GEOMETRY** 

Integrated frame rail wing geometry provides stiffness and support for a stable predictable ride. The 6R frame geometry and glass filled nylon structure deliver durability and performance.

**07. FRAME RAIL WING GEOMETRY** 

Integrated frame rail wing geometry provides stiffness and support for a stable predictable ride. The 6R frame geometry and glass filled nylon structure deliver durability and performance.

**08. TWO STAGE CUSHIONING SYSTEM** Impact EVA and Honeycomb Flexfloor™

provide comfort and support.

09. STAINLESS STEEL M6 HARDWARE Plated M6 316 stainless steel screws for a secure connection to your board.







#### MORE COMFORT, MORE GRIP, MORE LF'N INNOVATION

New Upper Comfort Cuff Added foam for more comfort around your leg.

Upgraded Upper Lace Design More adjustability, flixibility and an overall better hold.

**Upgraded Liner Outsole** Built-in heel cup, better support and a slight 2 degree inward cant.

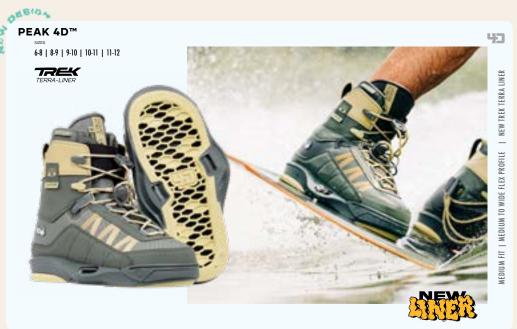
### New Assymetric Upper Cuff More flex and comfort without

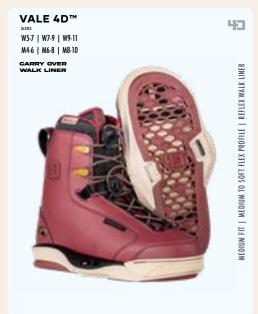
sacrificing performance.

Reduced Toe-Box Height
A improved fit above the toes giving you better toe-side control and response.

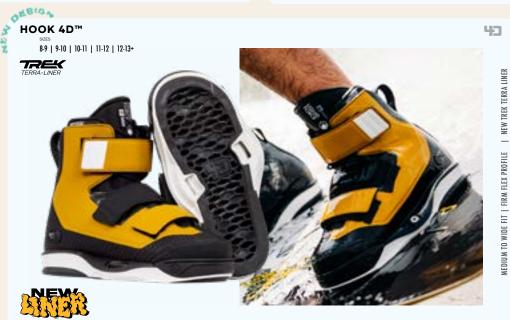
#### **Improved Tread**

Increased rubber tread with built-in lugs for better grip on wet surfaces.

























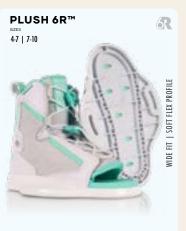












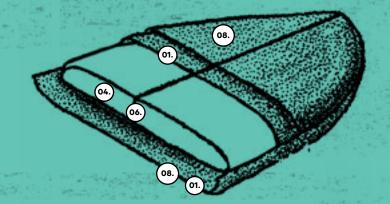




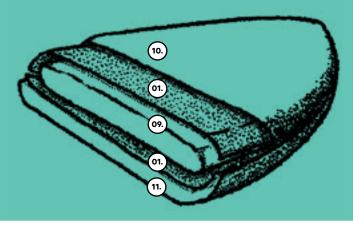
#### **ATOMIC SERIES**

### 01. 02. 06. 08. 01. 01.

#### **FLEET SERIES**



## BREAKTHROUGH CONSTRUCTION



### **GLOSSARY OF TERMS**

- **01. FIBERGLASS LAMINATION**Multiple glass layers for optimum strength/weight ratio.
- **02. CARBON INNEGRA**Impact strength and durability.
- **03. CARBON RAIL WRAP**Protection against rail dings and heel dents.
- **04. EPS CORE**Lightweight EPS foam core.
- **05. CARBON TAPE**Added stiffness and response.
- **06. SURF STRINGER**Thin wood stringer for light weight performance and response.

**07. SKIM STRINGER** 

Thicker wood stringer for rocker trueness in thin profile shapes.

08. DURA SHELL

Durable outer shell that protects and stiffens.

09. PU CORE

Durable molded polyurethane core.

10. PBT TOP SHEET

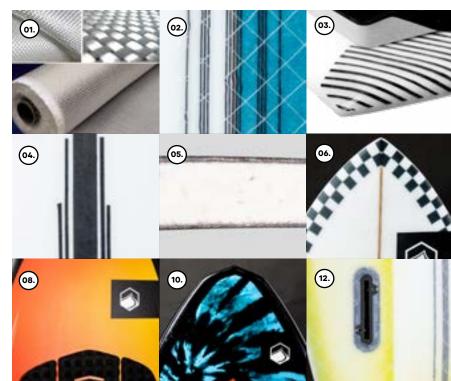
Glossy graphic substrate.

11. NEXUS BASE

Lightweight fabric graphic layer.

12. FIN BOX

Allows fins to be easily removed and adjusted



#### IE BREAKDOWN



#### **ATOMIC SERIES**

Space age technology and materials, as well as cutting edge shapes make these the lightest, fastest, and most aggressive in our lineup. If the Ultimate in High Performance Skim Style or Surf Style boards are what you're looking for, the ATOMIC Series is where the search starts and ends.



#### **FLEET SERIES**

Specific, tried and true designs built with lightweight and strong materials to move and react quickly and efficiently!



#### **BREAKTHROUGH SERIES**

All boards in this series are designed to help the entry level surfer "BOOST" to the next level of performance. All boards feature a super durable PU compression molded design, beveled forgiving rails, and EVA deck pads with large surface

#### FIN CONSTRUCTION



#### **CARBON HONEYCOMB**

Our Lightest weight most durable fin with a carbon base to provide stiffness and flex and a honeycomb tip to reduce weight and give the perfect amount of Flex



#### **FIBERGLASS**

Classic fin construction of durable fiberglass to provide a strong efficient fin



#### **COMPOSITE DUAL TAB**

Injected polymer for a strong easy to use fin that mounts into any LF Surfboard with a fin box



#### **COMPOSITE MOLDED BOLT ON**

Injected polymer for a strong easy to use fin that mounts into any LF Surfboard thru holes

#### **HULL DESIGN**

#### SINGLE CONCAVE

Produces lift while you are up on your feet and riding. It will also initially help you set your rail into the your fins. This also helps create face. Gives both control and lift some lift and control when you keeping you on top of the wave.

#### **DOUBLE CONCAVE**

Redirects the flow of water through your tail and around are surfing off your back foot.

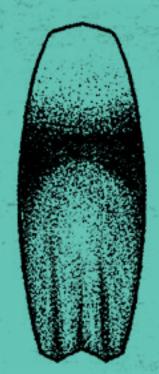
#### **VENTURI CONCAVE** (SINGLE TO DOUBLE)

Allows for speed when first getting up and riding down the line, but also allows for more 'lift' as the water now flows differently at the tail/fins of the board.

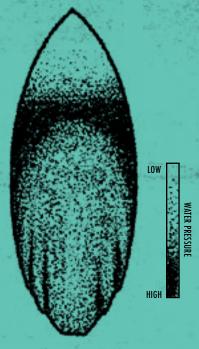


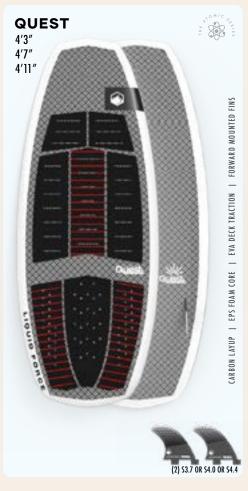
Paths created for water and air to pass quickly, with forced direction, through the bottom curves of a surfboard. Similar to concaves, but more dramatic and more focused for a specific style of riding.

















AERO™ CORE | FULL CARBON LAYUP | EVA DECK TRACTION











4'1"







**ALL OTHER SIZES** 













PU PRECISION FOAM CORE | EVA DECK TRACTION | FOOT STRAPS





## FULL DECK TRACTION PAD

Tip to tail & rail to rail. Its covered. Covered in soft, forgiving EVA foam that just screams HAVE FUN. With engineered textured pattern directly into the deck you get that perfect grip and ultra soft board.



## 2X STRINGER EPS CORE

Just because they are foamies doesn't mean they are little baby weak things. In fact, they are the opposite. The double fiberglass stringer gives it rigidity and extra strength to really lay into those turns and those gnarly tricks.



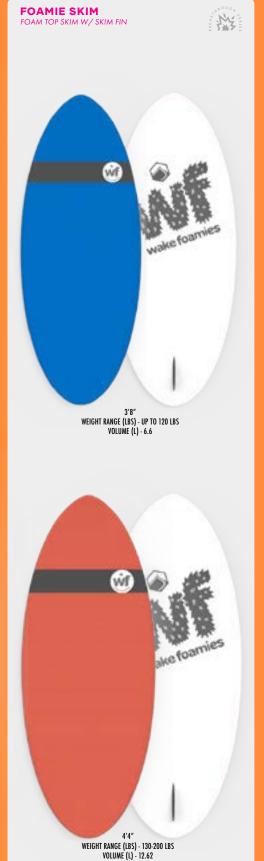
### DURABLE PC BOTTOM

These boards can take a beating. The patented PC hull material is built fo durability and reliability getting from you garage to the water.





















LOCK INTO RAILS AND ADVANCE YOUR SKATE SKILLS ON THE WATER SHIPS WITH HARWARE



# FOILS

oils can be ridden in just about any condition. That is the beauty of it. Foils allow the previously unrideable to be ridden and give new life to the status quo. Within the seemingly endless variety of conditions that occur, there are designs that are better suited for the condition. Bigger waves will require smaller faster foils while smaller waves need bigger foils. The Horizon line (Medium-Aspect) covers pretty much all conditions you will find yourself in a lake. The 190 will work for jetskis and direct drives. The 155 will work on any watercraft that can tow you. The 120 will be best suited for your traditional surf/wake boat. The Glider line (High Aspect) will take you even further. The 115 works great for your surf boat. The 95, while also working in those conditions, will get you out into the ocean surf as your foiling expands into new realms.

#### **STABILITY**

Stability can be thought of as the ability to recover with minimal effort. Highly stable foils will allow you to make mistakes and get off balance but wont effect your ride or ability to maintain lift. These foils are not as agile or nimble and can not be turned as hard or used as aggressively. The Horizon 190 and 155 would fall into this category. At the other end you will find the Glider 95 which is highly maneuverable, but you need to be a bit more on your A game to harness the magic.

#### **PUMP CADENCE**

Good pumping foils give good glide and enough lift with minimal effort put in by the rider. With every physical movement expended by the rider, the foil needs to translate that into speed and forward movement. Bigger foils can go slower and are easy to get going at the beginning. The Horizon 190 is a great foil for dock starts and starting from zero. The Glider series needs speed to start but once you are going, it is much easier to maintain momentum.

#### WINGSPAN

Wingspan, defined as the tip to tip distance of a foil. The Wingspan primarily controls a foils ability to roll. The shorter the wingspan the easier it is to roll the wing over and get a high banking turn. The Wingspan also effects the drag and overall speed of the wing. For a wing of a given area and lift profile, extending the wingspan allows you to shorten the chord length while keeping a similar amount of lift. This usually equates to lower drag and a higher speed foil.

#### **SPEED**

HIGH ASPECT = HIGH SPEED MEDIUM ASPECT = MEDIUM SPEED

The speed can be directly related to the efficiency of the wing. The High Aspect Wings have lower drag and therefore are able to reachhigher speeds. By the same token, size effects the speed as well. Smaller wings can go faster due to the lower drag.

#### **AREA**

Area is the first indicator of how the foil will perform. Larger area wings are made for going slower and accommodating heavier riders. Smaller wings will be faster. Area is not an indicator of skill level. Smaller wings will be used by both novice and advanced riders. Advanced riders will gravitate towards smaller wings due to the increase in speed that is possible. Novice riders will also gravitate towards smaller wings as the lift of the smaller wings is less and more manageable for the first time rider.

#### **ASPECT RATIO**

Defined as the wingspan ^2 divided by the wing area (B^2/S), the aspect ratio is the defining term for the efficiency of a foil. Typically speaking, the higher the aspect the more efficient the foil is. This leads to longer glides and higher speeds. The higher aspect wings have a higher level of required skill to ride and are not as forgiving as a medium aspect wing. Most beginner to intermediate riders will gravitate towards a medium aspect foil (3-6) due to the ability to achieve lift at lower speeds and bigger sweet spot that allows for easy recoveries while foiling. Advanced riders will gravitate towards a high aspect roil (7-10) as the overall speed the foil can go and generate is much higher. This leads to more progressive foiling.







## FOIL CHART

|             | FLIGHT - FRONT WINGS |                      |         |              |          |           |          |        |           |           |           |
|-------------|----------------------|----------------------|---------|--------------|----------|-----------|----------|--------|-----------|-----------|-----------|
| WING        | CONSTR.              | AREA CM <sup>2</sup> | SPAN CM | ASPECT RATIO | CHORD CM | STABILITY | SPEED    | PUMP   | BOAT      | WIND      | PRONE     |
| GLIDER 115  | CARBON               | 1150                 | 100     | 8.7          | 15       | MEDIUM    | FAST     | GREAT  | MED-LARGE | MED       | SMALL     |
| GLIDER 95   | CARBON               | 950                  | 90      | 8.5          | 13.8     | MEDIUM    | FAST     | GREAT  | LARGE     | MED- HIGH | SMALL-MED |
| HORIZON 190 | CARBON               | 1900                 | 100     | 5.3          | 26       | GREAT     | LOW      | GREAT  | SMALL     | rom       | SMALL-MED |
| HORIZON 155 | CARBON               | 1550                 | 80      | 4.1          | 26       | GREAT     | MEDIUM   | GOOD   | ALL       | LOW-MED   | SMALL     |
| HORIZON 120 | CARBON               | 1200                 | 80      | 5.3          | 19.5     | GREAT     | MED/FAST | GOOD   | MED-LARGE | MEDIUM    | SMALL-MED |
| FLITE 120   | CARBON               | 1200                 | 65      | 3.5          | 21       | GREAT     | LOW      | MEDIUM | MED-LARGE | =         | =         |

| FLIGHT - REAR WINGS |         |                      |         |              |          |           |        |         |      |      |       |
|---------------------|---------|----------------------|---------|--------------|----------|-----------|--------|---------|------|------|-------|
| WING                | CONSTR. | AREA CM <sup>2</sup> | SPAN CM | ASPECT RATIO | CHORD CM | STABILITY | SPEED  | PUMP    | BOAT | WIND | PRONE |
| G21                 | CARBON  | 210                  | 35      | 5.8          | 8        | MEDIUM    | FAST   | MEDIUM  | X    | Х    | х     |
| H24                 | CARBON  | 240                  | 37      | 5.7          | 8        | MEDIUM    | MEDIUM | MEDIUM  | х    |      | х     |
| TC28                | CARBON  | 280                  | 40      | 5.7          | 8        | GREAT     | MEDIUM | GREAT   | X    |      |       |
| FLITE               | POLYMER | 278                  | 39      | 5.4          | 9        | GREAT     | rom    | MED-LOW | х    |      |       |

| ALTITUDE - MASTS |           |                |        |           |      |       |          |  |  |
|------------------|-----------|----------------|--------|-----------|------|-------|----------|--|--|
| MAST             | STIFFNESS | CONSTRUCTION   | SPEED  | BOAT WAKE | WING | PRONE | LEARNING |  |  |
| CARBON 32"       | MAX       | CARBON         | FAST   |           | X    | Х     |          |  |  |
| CARBON 28"       | MAX       | CARBON         | FAST   | X         | х    | Х     |          |  |  |
| ALLOY 28"        | GREAT     | EXTRUDED ALLOY | MEDIUM | Х         | X    | X     |          |  |  |
| ALLOY 24"        | GREAT     | EXTRUDED ALLOY | MEDIUM | Х         |      |       | х        |  |  |

| WHEEL BASE – FUSELAGE |           |                 |              |  |  |  |  |
|-----------------------|-----------|-----------------|--------------|--|--|--|--|
| FUSELAGE              | STABILITY | MANEUVERABILITY | CONSTRUCTION |  |  |  |  |
| CARBON 44"            | GREAT     | MAX             | CARBON       |  |  |  |  |
| CARBON 54"            | MAX       | GREAT           | CARBON       |  |  |  |  |
| ALLOY 44"             | GREAT     | MAX             | CNC ALUMINUM |  |  |  |  |
| ALLOY 54"             | MAX       | GREAT           | CNC ALUMINUM |  |  |  |  |
|                       |           |                 |              |  |  |  |  |

|                   |          |              | DECKS – FOIL BO     | DARDS |
|-------------------|----------|--------------|---------------------|-------|
| BOARD             | ABILITY  | CONSTRUCTION | WAKESURF COMPATIBLE |       |
| ORB 3'6"          | ADVANCED | ATOMIC       |                     |       |
| ORB 4'0"          | INT/ADV  | ATOMIC       |                     |       |
| NEBULA 3'8"       | ADVANCED | DURASURF     |                     |       |
| NEBULA 4'2"       | INT/ADV  | DURASURF     |                     |       |
| POD 4'4"          | BEG/INT  | DURASURF     | X                   |       |
| POD 4'9"          | BEG/INT  | DURASURF     | x                   |       |
| LAUNCH 4'5"       | BEG/INT  | BREAKTHROUGH |                     |       |
| · · · · · · · · · | \        | · — ·        |                     |       |

#### GLOSSARY OF TERMS

#### 01. CARBON PRE-PREG CONSTRUCTION

A selection of our foil wings and masts are constructed with a high density foam core wrapped in 100% pre pregged carbon to make a lightweight, extremely durable end product.

#### 02. EXTRUDED ALUMINUM

Aluminum 6061 alloy that is lightweight and extremely durable.

#### 03. TITANIUM CORE (On the Carbon Fuselages)

High strength and corrosion resistant titanium core.

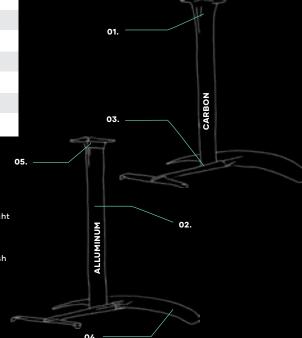
#### 04. LIGHTWEIGHT HIGH DENSITY FOAM

#### (WINGS AND MASTS)

Patented foam core designed specifically for use in hydrofoils to for superior strength and minimal weight

#### 05. CNC ALUMINUM

Precision CNC'd 6061 aluminum alloy. Anodized finish for corrosion resistance.



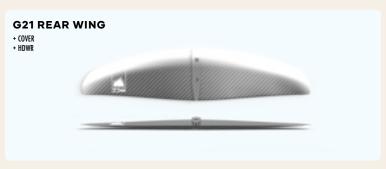














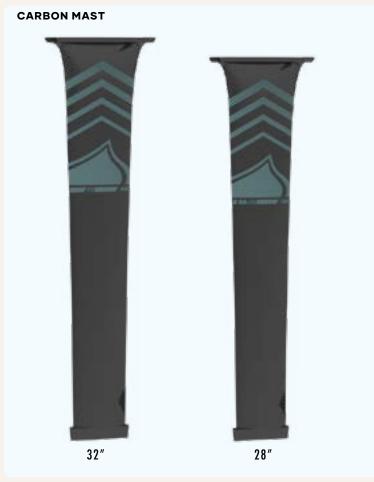


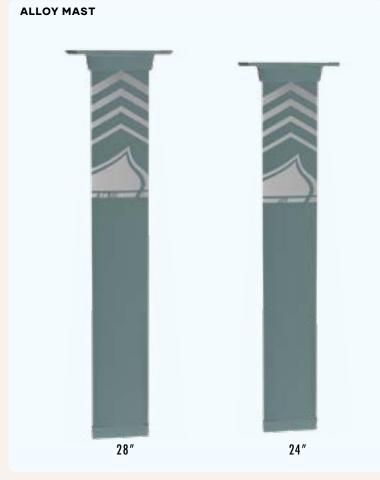




















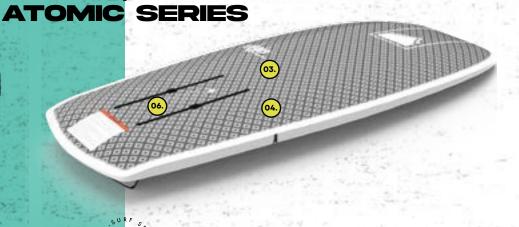
















### **GLOSSARY OF TERMS**

## **01. FIBERGLASS LAMINATION**Multiple glass layers for optimum strength/weight.

#### 02. PU FOAM CORE

Perfectly sized polyurethane core to optimize the strength to weight ratio of the lamination.

**03. CARBON REINFORCEMENT**Additional strength and stiffness.

#### 04. EPS FOAM CORE

Lightweight EPS foam core.

#### **05. DURA SHELL**

Durable outer shell that protects and stiffens.

#### 06. TRACK BLOCK

High density block that reinforces the track.

#### 07. PBT TOP SHEET

Glossy graphic substrate.

#### **08. H-BLOCK FOIL MOUNT TRACK**

Specifically designed foil track box reinforced to keep up with the unique and high loads produced from a foil.

ORB 3'6" 4'0"



**NEBULA** 3'8" 4'2"

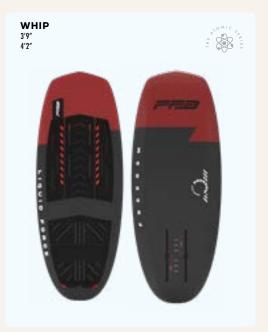












# GA LIFE JACKET A

or over 25 years Liquid Force has been dedicated to having fun on the water! It's also in our brand heritage to make sure everyone is safe while having a great time. We are committed to making the most comfortable, functional and safe life jackets for every watersport enthusiast. We take our time to design and test every CGA life jacket to meet the highest standards for safety and flotation.

Whether you're wakeboarding, boating, floating or foiling we offer a life jacket to fit your needs and abilities. For 2023, we continue to honor wakeboarding heritage and commitment to having fun safely with our coast quard approved vests.

At LIQUID FORCE our wakeboarding heritage also means helping riders push their own person performance limits. Our Competition vests feature more innovative designs and materials than any other brand! With features like exclusive Stitch-less Flex Panel Architecture, Poly Armour, PVX Stretchable foam, Chill stopper Lining, Bio-Spine 3D Curve pattern, and V-Flex shoulder pattern,

LIQUID FORCE delivers performance, comfort, and Style!

# CHEST SIZES

28" - 32" X-SMALL

32"- 36" SMALL

36" - 40" **MEDIUM** 

40"- 44" LARGE

44"- 48" **X-LARGE** 

48" - 53" XX-LARGE

52" - 56" XXX-LARGE

# GLOSSARY OF TERMS



# 01. BIO-SPINE 3D CURVE

LIQUID FORCE EXCLUSIVE- The radical new bio-spine is a 3D spinal curve down the back of the vest that creates a convex flex space for your shoulders, then transitions to a supporting spline hugging concave at your lower back. This new design allows a perfect fit that stays with you.



# **05. CHILL STOPPER LINING**

This unique stretchable fleece lining fabric keeps you feeling warm on the cool days and the soft-brushed surface always feels great on your skin!

Light soft, strechable, flexible

and provides impact protection

and flotation. U.S. Coast Guard



# 11. FLEX-SPAN NEOPRENE

12. POWER-FLEX NEOPRENE

in... comfortably!

13. SPEED-SKIN NEO

This smooth stretching neo-

Super smooth neo stretches

like no other and quickly sheds

water as you get up to speed.

supportive. Power-flex locks you

prene is extra durable and

Like a second skin, this super strechable neoprene fabric has been engineered to move with you, absorb less water, and dry fast.



# **02. PERFORMANCE FIT**

LIQUID FORCE Performance fit vests provides advanced riders with a close fitting second skin. The tapered pattern fits securely without sacrificing your range of motion. With a close fitting waist and extra shoulder space the performance fit locks you in but gives you room to move.

LIQUID FORCE comfort fit

vests have an accommodating

pattern for a relaxed feel. The

straight pattern fits all body

range of motion. Wider arm

types without sacrificing your

holes and generous neck open-



# 07. PVE

06. PVX

Ultra-light, supportive structure provides excellent floation.





# 08. SECTION FLEX / FLEX **ARCHITECTURE**

Approved Formula.

Number callouts indicate how many individual flex panels are on each vest.



# 14. AIR-PRENE

Our flex-span neo fabric with an extra ventilation feature. Air-Prene is ultra breathable and stretchable. Water and air flow for comfort and fast drain-



# 09. V-FLEX SHOULDER PATTERN

LIQUID FORCE EXCLUSIVE- The V-Flex is a pattern part located between your shoulder-blades and stretches as you move. The V-Flex pattern expands letting you move without restriction.



# 15. STRETCH-LIGHT LININGS

This lining fabric delivers the ultimate in comfort as it absorbs less water and dries fast to keep you comfortable.



# 10. FLEX-SPAN POLY

Advanced 4 way stretch fabric is thin and light but very strong. Special weave stretches smoothly taking on your shape.



# **16. POLY ARMOUR**

LIQUID FORCE EXCLUSIVE- UItra-light, impact resistant body armour panels provide extra protection for spine and chest impacts.



# 04. CGA BUCKLES

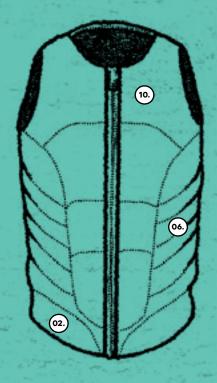
ing fit just right.

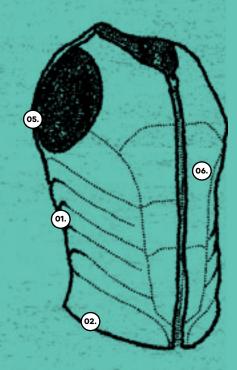
03. COMFORT FIT

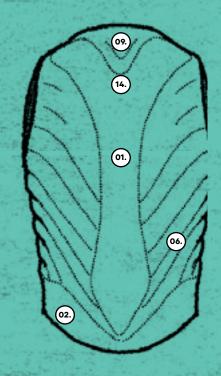
**Coast Guard Certified Buckles** Keep you locked in!

# ID COMP VEST TECH

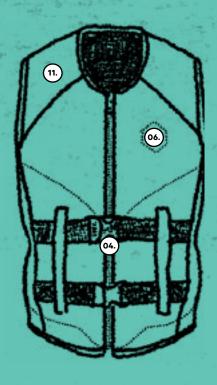
# COMPETITION VEST SPECTOR

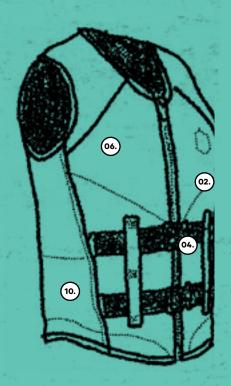


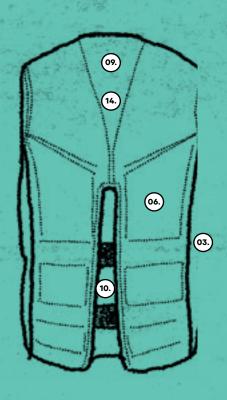




CGA LIFE JACKET
WATSON CGA







40 | CONSTRUCTION | LIFE JACKETS



























































FLASH
SIZES
SM | MD | LG | XL





# The Liquid Force Boat Defender protects your boat from bumps, scrapes, and scratches while parking your boat.



We made the Boat Defender with hull hugging contours, and two pass throughs that allow your dock ties clear access to cleats and pilings with the fender installed.

he LF Boat Defender features our durable, non-marking, high-density

2-TUFF EVA foam construction for ultimate protection between your boat and parking/docking surfaces.

The LF Boat Defender features a secure quick cleat attachment system which lets it attach quickly and securely to your boat, docks, or pilings.

The locking system is SUPER easy to use! Simply loop the line over the cleat or piling and pull the knotted end toward you. As you pull, the rope locks into the cleat. To release or re-adjust, simply pull the rope away from you.

- · MODERN STREAMLINED DESIGN
- DURABLE INJECTION MOLDED 2-TUFF EVA
- 22" LONG X 8" WIDE X 4" THICK
- PROTECTS THE RUB RAIL AND GEL COAT ON YOUR BOAT
- · CLOSED-CELL FOAM WILL NOT ABSORB WATER
- · NON-MARKING SURFACE FINISH
- QUICK-RELEASE ADJUSTABLE LOCKING CAM CLEAT THAT

IS SUPER EASY TO USE!

SECURE ATTACHMENT TO BOATS AND DOCKS

# **BOAT DEFENDER**







DARK GREY BLUE LIGHT GREY



# **WAKESURF EDGE MEGA WAVE FOLDING SHAPER 250**



#### BOAT COMPATIBILITY

The Liquid Force Wake Surf Edge Mega Wave will make big wakes BIGGER! Recommended for Boats 21' or longer. The WSE Mega 250 requires a mounting surface 5" tall by 12" long clear of hull steps greater than 3/8". The WSE edge suction cups will accommodate hull curvature.

#### **HUGE WATER DISPLACEMENT WING** FOR MAXIMUM WAVE HEIGHT!

Largest Wake Shaper Face 14" x 18" = 252sq inch face

# PATENTED CONCAVE WATER

## **CHANNELING WING**

Our concave channeling wing surface pushes more water to increase the length of the wave, while keeping the face super clean!

# SUPER STRONG SUCTION CUP

# **ATTACHMENT**

Our 4.5 inch rubber suction cups won't damage gel coat or leave black markings on your boat.

# EASY TO ADJUST ON THE FLY, NO UGLY VELCRO OR SAFETY TETHERS REQUIRED.

Made with Durable Rust Free Materials . We Build the WakeSurf Edge with impact resistant, lite weight glass filled nylon and rust free stainless steel hardware. Our shaper is long lasting; won't rust or stain your boat.

# **BUILT IN FLOTATION**

Don't worry about your wake shaping invest-ment sinking to the bottom. The Wakesurf Edge wing is rotomolded and sealed air tight.

# MAKE THE MOST OF THE

# MEGA WAKE SURF EDGE

Recommended boat 21' or longer, have a 325hp engine or greater, and 2000 pounds of factory and/or Sumo water ballast system. Level load your boat to keep the nose down for the captain's visibility and a longer wake.



# **BOAT COMPATIBILITY**

 $\textbf{The Liquid Force Wake Surf Edge Pro II will improve the wake of boats large and small.} \ \textbf{The WSE}$ Pro II 150 requires a mounting surface 5" tall by 12" long clear of hull steps greater than 3/8". The WSE edge suction cups will accommodate hull curvature.

# LARGE WATER DISPLACEMENT WING FOR MAXIMUM WAVE HEIGHT. Wake Shaper Face 9" x 16" = 144sq inch face

## PATENTED CONCAVE WATER

## **CHANNELING WING**

Our concave channeling wing surface pushes more water to increase the length of the wave, while keeping the face super clean!

# SUPER STRONG SUCTION CUP ATTACHMENT

Our 4.5 inch rubber suction cups won't damage gel coat or leave black markings on your boat.

# EASY TO ADJUST ON THE FLY, NO UGLY

# VELCRO OR SAFETY TETHERS REQUIRED.

Made with Durable Rust Free Materials. We Build the WakeSurf Edge with impact resistant, lightweight glass filled nylon and rust free stainless steel hardware. Our shaper is long lasting; won't rust or stain your boat.

# **BUILT IN FLOTATION**

Don't worry about your wake shaping investment sinking to the bottom. The Wakesurf Edge wing is rotomolded and sealed air tight.

## MAKE THE MOST OF THE

# WAKE SURF EDGE

We recommend a Sumo water ballast system. Level load your boat to keep the nose down for the captain's visibility and a longer wake.



# **WAKESURF EDGE INLINE PRO 145**



#### **BOAT COMPATIBILITY**

The Inline Shaper is designed to fit hulls with more complicated surface designs. This shaper needs a flat surface measuring 3" tall by 13" long. If there is a lip/step above the attachment area on your hull that protrudes more than 2", then you will need a little more space. If your hull has an outward curve of more than 1/4" over 5", this shaper is exactly what you need!

## INLINE SUCTION CUP ATTACHMENT

One New Inline shaper is designed to fit radically stepped hulls with narrow strakes and heavy curves. 5 inline 2 inch rubber suction cups securely grip the hull and won't damage gel coat or leave black markings on your boat. Easy to adjust on the fly, No ugly Velcro or safety tethers required.

# LARGE WATER DISPLACEMENT WING FOR MAXIMUM WAVE HEIGHT.

Wake Shaper face 9" x 16" = 144sq inch face

# PATENTED CONCAVE WATER CHANNELING WING

Our concave channeling wing surface pushes more water to increase the length of the wave, while keeping the face super clean!

# MADE WITH DURABLE RUST FREE MATERIALS

#### MATERIAI

We Build the WakeSurf Edge with impact resistant, lite weight glass filled nylon and rust free stainless steel hardware. Our shaper is long lasting; won't rust or stain your boat.

## **BUILT IN FLOTATION**

Don't worry about your wake shaping investment sinking to the bottom. The Wakesurf Edge wing is rotomolded and sealed air tight.

# MAKE THE MOST OF THE

# MEGA WAKE SURF EDGE

We recommend a Sumo water ballast system. Level load your boat to keep the nose down for the captain's visibility and a longer wake.



## **BOAT COMPATIBILITY**

Teach your small boat some big boat tricks! The LIQUID FORCE WAKE SURF EDGE PRO 100 will make a small wake bigger and can fine tune a big wake into a surfing playground. This shaper needs a flat surface measuring 5" tall by 13" long. The Wakesurf edge Pro 100 helps you get the best surf performance from smaller boats.

You can use the PRO 100 with your Jet ski to build a wake perfect for foiling or combine the Pro 100 with the WSE PRO 145 or MEGA 250 on larger boats to build the perfect wall of water.

# LARGE WATER DISPLACEMENT WING FOR MAXIMUM WAVE HEIGHT.

Wake Shaper face  $10'' \times 10'' = 100$ sq inch face

#### PATENTED CONCAVE WATER CHANNEL-ING WING

Our concave channeling wing surface pushes more water to increase the length of the wave, while keeping the face super clean!

# SUPER STRONG SUCTION CUP ATTACHMENT

Our 4.5 inch rubber suction cups won't damage gel coat or leave black markings on your boat.

# EASY TO ADJUST ON THE FLY, NO UGLY

# **VELCRO OR SAFETY TETHERS REQUIRED.**Made with Durable Rust Free Materials. We

Build the WakeSurf Edge with impact resistant, lite weight glass filled nylon and rust free stainless steel hardware. Our shaper is long lasting; won't rust or stain your boat.

# BUILT IN FLOTATION

Don't worry about your wake shaping investment sinking to the bottom. The Wakesurf Edge wing is rotomolded and sealed air tight.

# MAKE THE MOST OF THE

# WAKE SURF EDGE

We recommend a Sumo water ballast system. Level load your boat to keep the nose down for the captain's visibility and a longer wake.













































WHEELED GOLF/BOARD BAG
9/255
1/70CM | 65" X 17" X 11"



























































**CORPORATE LOGO** 



REVERT

TRADITION

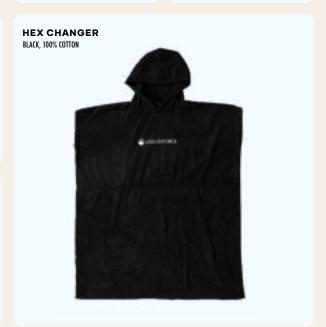


















LOGO TOWEL BLACK 100% COTTON



