






















Material/feature descriptions & size guide





Logo	Feature	Position(s)	Wetsuit(s)	Purpose	Description
	AQUATREAD	FOREARM PANEL	ALPHA 3.8	Increased water catchment & power through the water	The AquaTread forearm panel has been developed to increase power with each stroke. 3mm neoprene has been pressed into a tyre tread-like surface, to grab at the water. The panel has also been moulded to increase the water catchment area.
	EXO-CELL BUOYANCY SYSTEM	CHEST PANEL BUTT PANEL LOWER LEG PANEL	ALPHA 3.8	Maximum buoyancy/ optimum body position	Exo-Cell is a unique sandwich-designed neoprene that provides over 25% more buoyancy than Aerodome. Panels of Exo-Cell are used in a system on the 3.8 and Alpha to optimise the swimming position.
	DELTA STRETCH	SHOULDER PANEL	SONAR	Increased range of motion	2mm #39 Cell neoprene technology for correct positioning and flexibility through each phase of the swim stroke.
	FLEXISEAL	NECK	S3 EQUIP	Watertight/comfortable/ reduces chafing	The water-tight internal smoothskin and anti-chafe neck tab work to increase comfort and reduce water entry. Velcro fastening maximises drag-free movement, durability and seal.
	FREEFLEX	BACK PANEL	ALPHA	Unhindered motion & flexibility	During the pull-through phase of the swim stroke, the FreeFlex back panel allows the trapezius and latissimus muscles to work unhindered, driving you through the water.
	FREEFLY	ARM PANEL	ALPHA	Reduced effort/more power	The 1.5mm Yamamoto #40 neoprene on the FreeFly arm panel is integral in reducing resistance on the deltoid area of the arm. The range of motion reduces the effort required in recovery phase of each stroke, saving more power.
	FREEWING	CHEST/UNDERARM PANEL	ALPHA	Seamless neoprene panel increasing reach	No triathlon wetsuit has ever featured a panel shaped like the FreeWing. A single, seamless piece of neoprene covers the upper chest, inner arm and lateral area for incredible reach through the entry and catch phase of the stroke.

Features

Logo	Feature	Position(s)	Wetsuit(s)	Purpose	Description
	HYDROLIFT	BODY PANEL	SONAR	Increased buoyancy/ optimises body position	4mm neoprene maximises buoyancy where you need it most. Race-proven stability for perfect pitch and balance.
	HYDROLIFT BUOYANCY CELL	FOREARM PANEL	3.8 SONAR	Increased swim efficiency	Cells of foam are positioned on the upper forearm area of the sleeves on the wetsuit. They assist in getting your arm into the correct position for the catch phase of the arm stroke.
	HYDROSTROKE	FOREARM PANEL	SONAR EQUIP S3	Increased stroke power	Printed silicone pits act as water traps, increasing pulling power in the catch phase of the swim stroke. Embedded in a super stretch water-resistant PowerStretch 2mm jersey, the HydroStroke panel features aqua channels that provide through-flow of water, for reduced effort in the reach phase of your stroke.
	LOW PROFILE NECK	NECK	ALPHA 3.8 SONAR EQUIP	Watertight seal	The comfortable low profile neck seal, designed to sit flat against the neck, limiting water entry and reducing the incidence of chafing.
	HYPERSTRETCH	UNDERARM PANEL	SONAR	Increased shoulder flexibility/ comfort	2mm neoprene increases flexibility, comfort and speed through the water and provides perfect weighting to aid rotation and reach. Advanced material technology for enhanced movement and range.
	SLIPSTEAM ZIP	BACK	ALPHA 3.8 SONAR EQUIP S3	Low drag/ease of use	Race-proven drag reduction technology providing the least possible resistance between wetsuit and water.
	SPEED TRANSITION	LOWER LEG PANEL	ALPHA 3.8 SONAR EQUIP S3	Faster removal/ tighter seal	Special panel on rear of leg, which aids in the fast removal of wetsuit, while providing a water tight seal.
	QUADRAFLEX	UNDERARM PANEL	S3	Enhanced flexibility/ water repellent	Provides enhanced movement and range. Treated with a water repellent coating, this panel works to shed water away from the body

Logo	Material	Wetsuit(s)	Purpose	Description
	AERODOME	SONAR	Greater buoyancy/enhanced flexibility/ lightweight	Beneath the dimpled surface of Orca's Aerodome 39 Cell neoprene are hundreds of air cavities, which act together to provide 30% more buoyancy than normal 5mm neoprene. Aerodome panels are placed strategically around the heaviest parts of the body, lifting you into the optimum swimming position.
	SUPER COMPOSITE SKIN (SCS)	3.8 SONAR EQUIP	Greater speed through the water/ reduces resistance	Applied as a coating over closed-cell neoprenes. The micro-cell structure of the SCS coating repels water when in contact with air and reduces surface resistance when in contact with water.
	NANO SUPER COMPOSITE SKIN	ALPHA 3.8	Greater speed through the water/ reduces resistance	Super Composite Skin (SCS) has become the benchmark for coating the neoprene used in triathlon wetsuits, to reduce friction and increase speed through the water. Orca uses Yamamoto Corporation's latest Nano SCS for an even lower drag coefficient, ensuring the fastest swim possible.
	SMOOTHSKIN	EQUIP S3	Durable/buoyant/ thermal protection	Providing an excellent introduction to open water swimming, Orca's SmoothSkin neoprene is durable, flexible and buoyant, and provides excellent thermal protection.
	YAMAMOTO #39 CELL NEOPRENE WITH SCS	3.8 SONAR EQUIP	Excellent stretch/ zero water absorption	Yamamoto #39 cell is an extremely flexible neoprene which supports an uninhibited natural swimming motion. Yamamoto #39 cell neoprene extends to a 520% elongation rate, meaning this material is sure to move with you. Added benefits of zero water absorption and zero weight-variation can mean only one thing: more speed. Yamamoto #39 cell is a high quality neoprene ideal for the dedicated competitor looking for the Orca edge. A fine balance between buoyancy and flexibility, #39 cell is a durable material enhanced with SCS coating – which will stand the test of time and distance. With an overall 513% elongation rate, #39 cell represents the best neoprene available in its class.
	YAMAMOTO #40 CELL NEOPRENE	ALPHA 3.8	Premium flexibility, fit and comfort.	Yamamoto Corporation is regarded as the top producer of neoprene for triathlon wetsuits in the world, and its #40 Cell neoprene is the pinnacle for flexibility, suppleness, fit and comfort. Orca uses 1.5mm and 2mm panels of Yamamoto #40 Cell Neoprene, complemented by the high stretch 4-Way FreeStretch, in key areas around the upper body and arms of the Orca Alpha to provide a wetsuit swimming experience never seen before.

Materials

Logo	Material	Wetsuit(s)	Purpose	Description
	4-WAY STRETCH	ALPHA 3.8	Unbelievable flexibility	<p>It's what's on the inside that counts and Orca's unique 4 way stretch plays an integral part in the unbelievable flexibility of the Orca Alpha and the Orca 3.8. Constructed from a high stretch nylon, 4-way stretch is used as the lining on the FREE WING, FREE FLY and FREE FLEX panels of the Alpha and the shoulder panels of the 3.8, allowing the wetsuit to move dynamically through your swim stroke.</p> <p>STRETCH [■■■■]</p>
	MULTISTRETCH	ALPHA 3.8 SONAR EQUIP S3	Enhanced reach & extension	<p>The MultiStretch jersey provides maximum extension, reach and support through shoulder and underarm panels of the suit. Designed with flexibility and comfort in mind, MultiStretch offers the wearer optimal freedom of movement throughout all phases of the stroke.</p> <p>STRETCH [■■■■]</p>
	SUPERSTRETCH	3.8 EQUIP	Durable & comfortable	<p>The perfect inner layer, designed to move with the wearer. With full stretch properties and durable construction, SuperStretch is comfortable against the skin for the hours of training and competition. Maximum flexibility where you need it most.</p> <p>STRETCH [■■■■]</p>
	POWERSTRETCH	SONAR S3 S3 SLEEVELESS	Next to skin comfort	<p>An all-round flexible and durable jersey, PowerStretch forms the inner layer of both the Equip and S3 speedsuits. Developed with distance-swimming in mind, PowerStretch provides next-to-skin comfort whatever your level of competition.</p> <p>STRETCH [■■■■]</p>