



The ORCA product portfolio consists of configurable Line of Demarcation solutions designed to facilitate Access Control on the water. If your organization has a requirement to:

- Establish Exclusion Zones and Boundaries for Sensitive Areas
- Identify security boundaries for critical infrastructure
- Discourage public access to private property
- Identify hostile intent related to criminal activity and terrorist acts

ORCA is highly customizable and engineered to excel in harsh marine environments. ORCA I floats are able to be connected using marine-grade fiber line, stainless steel wire rope system or chain to match operational requirements. ORCA II was designed to provide limited stopping power for personal watercraft and can also be configured with an oil boom. ORCA II has been designed to provide secure mounting connections for both fiber rope and stainless steel impact netting.

**ORCA LOD I & II Key Features:**

- Customizable - Multiple Configuration – Extensive Optional Equipment
- Variable Buoy Separation Options
- Lightweight and Durable Polymer Construction
- Easily Maneuvered on the Water
- Standard Station Keeping Anchors or Customized Anchoring Solutions Available
- 15 Year Life Cycle

ORCA I



ORCA II



								
Parameter	Orca LOD 1	Orca LOD 2	Deployer	Defender	Guardian	Triton	Triton OS*	Sentinel
	LINES OF DEMARCATION			MARINE BARRIER SYSTEMS				

#### SIZE

Height off water (m)	0.7	1.3	1.6	2.4	2.4	2	2.5	2.6
Width/Beam (m)	0.7	2.3	1.6	5	4.4	2.5	2.8	4.6
Draft	0.2 M	0.2 M	0.58 M	0.84 M	0.62 M	Varies	Varies	Varies
Mass (kg/m)	42	160	113	267	90	190	310	448
Sectional Length (m)	</= 300	1.6	1.5	4	4	12	12	15

#### CAPABILITY

Max Kinetic Energy (kJ)	-	135	705	705	> 6,779	705	1200	> 6,779
% of Boats Stopped	-	82%	99.00%	99.00%	99.99%	99.00%	99.25%	99.99%
ASTM F2766-11 KE LVL	-	LVL A	LVL C	LVL C	LVL F	LVL C	LVL C-D	LVL F

#### DEPLOYMENTS

Access Control	✓	✓	✓	✓	✓	✓	✓	✓
Manual Marine Gate	✓	✓	✓	✓	✓	✓	✓	
Automatic Marine Gate			Option	Option	Option	Option	Option	
Static Barrier	✓	✓	✓	✓	✓	✓	✓	✓
Portable Barrier	✓		✓					

#### THREAT TYPE

Swimmers	✓	✓	✓	✓	✓	✓	✓	✓
Small Watercraft	✓	✓	✓	✓	✓	✓	✓	✓
Medium Watercraft			✓	✓	✓	✓	✓	✓
Large Watercraft				✓	✓		✓	✓

\* Offshore

ORCA is suitable for both commercial and military applications and can be fully integrated with existing third-party port security systems or other HALO waterside security barriers.

#### Applications:

- Safety Zones at Shipyards, Dams, Industrial Facilities
- Recreational Swimming Venues
- Sensitive Environmental Zones
- Boat Ramps
- Property Lines
- Hazards to Navigation
- Special Events Requiring Exclusion Zones:
  - Triathlon Swimming Venues
  - Small Craft Competition & Boat Shows
  - Military Demonstrations
  - Waterfront VIP Events

**All HALO systems are available with the following options:**

- Lights & Signage
- Security Cameras
- Intrusion Detection
- Marine Netting
- Annunciators
- Oil Abatement/Containment
- Mooring/Anchoring Options
- Multiple Color Options
- 3rd Party Integrations

**All HALO Protective Security Barriers are Marine Mammal Friendly and Offer a 15-year Nominal Lifespan**