





Elastec Optimax booms are comprised of a solid foam log with an added tension member and a skirt. This oil and debris barrier is typically for protected water and fast current use. The top cable and bottom chain give the boom extra strength - holding the boom together even if the fabric becomes damaged.

Optimax is a strong, versatile containment boom meeting OPA 90* specification for use in rivers, streams and near shore environments. OptiMax II is the contractor's boom of choice for rivers and streams where conditions such as a fast current may exist that requires additional buoyancy reserve. In strong currents, shorter boom skirts are available to reduce drag.

Optimax boom is an industry standard oil containment boom. The stable, closed-cell foam log provides high buoyancy reserve. Manufactured in coated polyester material (other fabrics on request), this boom is fitted with handles and anchor points, as well as being offered with a variety of accessories.

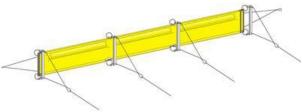
Optimax boom comes in standard section lengths of 50ft or 100ft (15m or 30m). Custom lengths are available upon request. The boom is supplied with ASTM compliant interchangeable end connectors for rapid coupling of sections. End connectors are fitted with sacrificial Zinc anodes.

Specification	Optimax I		Optimax II	Optimax II	
Height:	13 inch / 33 cm	19 inch / 48 cm*	14 inch / 35 cm	20 inch / 50 cm*	
Freeboard:	7 inch / 18 cm	7 inch / 18 cm	8 inch / 20 cm	8 inch / 20 cm	
Draft:	6 inch / 15 cm	12 inch / 30 cm	6 inch / 15 cm	12 inch / 30 cm	
Top Tension:	5/16 inch / 8 mm G	5/16 inch / 8 mm Galv. Cable		1/4 inch / 6 mm Stainless Cable	
Bottom Tension:	Hot Dip Galvanized Ballast Chain		Hot Dip Galvanized I	Hot Dip Galvanized Ballast Chain	
Weight:	2.2 lb/ft / 3.3 kg/m	2.3 lb/ft / 3.4 kg/m	2.3 lb/ft / 3.4 kg/m	2.4 lb/ft / 3.6 kg/m	





An option, extra cable anchor loops can be fitted at regular intervals along the boom, top and bottom, to provide additional anchor points. A special tow bridle with spreader bar prevents the boom skirt from collapsing. Attached to the cable anchor loops with quick connect snap hooks.



Coated Fabric Properties	Reference Standard		
Standard PVC (others on request)	F715-07(2012) Standard Test Methods		
Oil Resistance After 7 days	for Coated Fabrics Used for Oil Spill		
Crude Oil <3%	Control and Storage		
Diesel <3%			
Gasoline <3%			
After 60 days			
Motor Oil <2%			
Diesel <3%	D471		
Gasoline (+ ethanol) < 4%"			
Ply Polyester 1,300 x 1300 denier polyester	D751		
Coated weight 22 oz/sq yard	D751-A		
Tensile strength Warp 440 lbs / 1960 N	D751-B		
Tensile strength 1 inch strip 285 lbs / 1268 N	D751-B		
Tear strength Tongue 85 lbs / 378 N	D751		
Ply adhesion 17 lbs per 2 inch / 76 N/5 cm			
Thermal Adhesion 17 lbs/ inch 30N/cm	D2136		
Low temp - 20F / -29C	D1204		
Hight temp continuous / Intermittent 160/180F / 71/82 C	D751		
Puncture Resistance, 151 lbs avg.	D3884		
Taber Abrasion, H18, 1000 gram - 3,000 Cycles to Exposure			

Mechanical Properties		Reference Standard	
Construction	Fully welded construction		
Float Pocket	Fully welded, fabricated to facilitate folding and reeling		
Flotation	Solid core up to 8 inch diameter. Closed-cell polyethylene foam rounds that are flexible, lightweight and buoyant, will not absorb	F268-07(2012)e1 Standard Guide for Determining the Buoyancy to Weight Ratio of	
	or wick water. Chemically inert. Won't compress or deform if	Oil Spill Containment Boom	
	stacked in piles and can be put on reel. Compression recovery	ASTM C 1016 - Water Absorbtion	
	greater than 90%.	ASTM D1622 - Density	
		ASTM D 5249 - Compression Reovery	
		ASTM D 5249 - Compression Deflection	
		ASTM D 1623 - Tensile Strength	
Connectors	ASTM compliant left handed Universal Slide fitted as standard, Z	F962-04(2010) Z-Connector	
	connector optional.	F2438-04(2017) Slide Connector	
	Manufactured in 6061-T6 Aluminum alloy.	Aluminum Association (AA) Standards	
Anodes	1 plus year continuous service, KG3 Grade		
Toggle Pins	1 toggle pin with spring and lanyard per connector	F2538-04 Self locking pin, lanyard assembly,	
		tensile test	
Handles	UV resistant webbing mounted along the boom		
Anchor Points	Included		
Chain Pocket	Double layer, enclosed with drain holes, reinforced openings		
Anchor Shackles	Grade A, Class 3. Hot dip galvanized	Federal specification RR-C-271F	
Chain	Hot dip galvanized	Manufactured to NACM standards, Q235	
		composition	
Top Cable	Galvanized aircraft cable (GAC) grade or Stainless Steel	Manufactured to Mil-W-83420 Military	
		Specification: Wire rope, Flexible, For Aircraft	
		control	
Tensile Strength	Optimax desctructive pull test 7,970 lb	F1093-99(2012) Standard test methods for	
		tensile strength characteristics of oil spill response boom	

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Repair	Standard fabric repair kits with hot air gun. Boom connector replacement kits
Anchoring and mooring systems available	Anchors - single / dual, Tidal compensator, pile tether, pile slider / cable anchor loops
Storage / deployment systems available	Reels (static or trailer), container systems
Customization	Light, radar reflectors, hangers, cable anchor loops, size, section length, fabrics
Colors	Yellow (standard), orange (optional)
Marking	Silk screening
Packing	Bulk, wrapped in filtercloth, boxes or crates

Other Standards and Federal Regulation

F2683-11(2017) Standard guide for selection of booms for oil spill response

F625/F625M-94(2017) Standard practice for classifying water bodies for spill control systems

F818-16 Standard terminology relating to spill response booms and barriers

F1523-94(2013) Standard guide for selection of booms in accordance with water body classifications

F2084/F2084M-01(2012)e1 Standard guide for collecting containment boom performance data in controlled environments ISO 17325

Optimax complies with United States Code of Federal Regulation (CFR) 33.Pt 154. App.C for Rivers and Canals, Inland and Great Lakes. Boom with less than 18 inches height will only comply with CFR 33 for Rivers and Canals.

18 inch Optimax boom conforms with ASTM standard F1523 for calm water, calm water-current and protected water.

Phillipine Coast Guard approval

Meets USCG guidelines for fast water use





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