

ELASTEC

MiniMax & MaxiMax

Rapid Deployment Containment Boom



Oil Spill Equipment | Floating Barriers | Incinerators



Elastec manufactures a line of fence boom with added tension members combined with solid foam flotation. This oil and debris barrier is typically used for rapid deployment in ports and harbors for surrounding vessels or protecting resources. The construction employs top and bottom tension members (cable on top and chain on bottom). Even if the fabric is damaged these members will hold the boom together.



MiniMax and MaxiMax booms have low storage volume and can be stored on pallets or wound on reels*. This system is especially useful for ports and harbors where a quick response is required. These booms feature closed cell foam buoyancy panels, vertical stiffeners, galvanized chain ballast, stainless steel top tension cable, plus a choice of fabrics. Fence boom is typically used for static or low current applications. However, the 42" MaxiMax is fitted with extra buoyancy to support sweeping type operations.

MINIMAX SPECIFICATIONS

Height	17 inch / 430 mm
Freeboard	6 inch / 150 mm
Draft	11 inch / 280 mm
Top Tension	3/16 inch / 5 mm Stainless Cable
Bottom Tension	3/16 inch 5 mm Galv. Steel Chain
Weight	1/2 lb/ft / 1.8 kg/m
Actual Breaking Strength	6,400 lb / 2,909 kg
Float Thickness	Rectangular Panels 2 inch / 50 mm
Reelable	Yes
ASTM F1523 Compliance	Calm Water



MAXIMAX SPECIFICATIONS

Height	25 inch / 635 mm	30 inch / 760 mm	36 inch / 910 mm	42 inch / 1,016 mm	44 inch / 1,100 mm
Freeboard	8 inch / 200 mm	10 inch / 250 mm	11 inch / 280 mm	15 inch / 380 mm	15.75 inch / 400 mm
Draft	17 inch / 430 mm	20 inch / 510 mm	25 inch / 635 mm	27 inch / 680 mm	27.5 inch / 700 mm
Top Tension	1/4 inch / 6 mm Stainless Cable		5/16 inch / 8 mm Stainless Cable		
Bottom Tension	3/8 inch / 10 mm Galv. Steel Chain		1/2 inch / 12 mm Galv. Steel Chain		
Weight	2.2 lb/ft / 1.8 kg/m	2.6 lb/ft / 3.3 kg/m	2.8 lb/ft / 4.2 kg/m	5 lb/ft / 7.5 kg/m	5 lb/ft / 7.5 kg/m
Actual Breaking Strength	6,400 lb		12,500 lb	16,500 lb	
	2,909 kg		5,669 kg	7,500 kg	
Float Thickness	Rectangular Panels 2 inch / 50 mm		4 inch / 100 mm	2 inch / 50 mm	
Reelable	Yes	Yes	Yes	No*	Yes
ASTM F1523 Compliance	Calm Water	Protected Water			Protected Water

GENERAL SPECIFICATIONS

Section Lengths:	25, 50, 100ft / 7.5, 15, 30m
Anchoring Points:	At section connectors
Fabric:	22 oz / 735 gsm PVC (other available on request)
Construction:	Fully welded
Stiffeners:	Vertical stiffeners are fitted between each float for stability
Anodes:	Fitted at section connectors
Handles:	Fitted along the boom

MaxiMax boom comes in standard section lengths of 50ft or 100ft (15m or 30m). MiniMax is also available in 25ft (7.5m) sections. Custom section lengths and boom sizes are available on request. The boom is fitted with ASTM compliant interchangeable end connectors for rapid coupling of sections. End connectors are fitted with sacrificial Zinc anodes.



The construction of these booms does not use sewing that would allow water to enter the float chambers, instead its' float pockets are fully welded for a water tight seal. The floats are closed cell ensuring that they will not take up water and provides strength to be wound on a reel without deformation.

Manufactured in fully welded 22oz PVC material (other fabrics available on request), this boom is fitted with handles and anchor points, as well as being offered with a variety of accessories such as anchors, lights, repair kits, towing sets and reflectors.



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

Mechanical Properties		Applicable Standard
Construction	Fully welded construction	
Float pocket	Fully welded , fabricated to facilitate folding and reeling	
Floatation	Closed-cell polyethylene foam panels, will not absorb or wick water. Chemically inert. Minimal compression if stacked in piles and can be put on reel.	F2682-07(2012)e1 Standard Guide for Determining the Buoyancy to Weight Ratio of Oil Spill Containment Boom ASTM D3573 - Water absorption, Thermal stability, Compression Set, Density
Stiffeners	Vertical stiffeners in the boom to prevent folding over	
Top cable	Stainless steel top cable in sheathed pocket	
Connectors	ASTM compliant left handed Universal Slide fitted as standard, Z connector optional. Manufactured in 6061-T6 Aluminum alloy"	F962-04(2010) Standard Specification for Oil Spill Response Boom Connection: Z-Connector F2438-04(2017) Standard Specification for Oil Spill Response Boom Connection: Slide Connector Aluminum Association (AA) Standards
Anodes	1 plus year continuous service, KG3 Grade	
Toggle pins	1 toggle pin with spring and lanyard per connector	F2438-04 Self Locking Pin, Lanyard Assembly, Tensile Test
Handles	1 inch wide UV resistant webbing mounted along the boom. Tensile strength 540 lbf min.	
Anchor points	Included	
Chain pocket	Double layer, fully 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
Tensile strength testing		F1093-99(2012) Standard Test Methods for Tensile Strength Characteristics of Oil Spill Response Boom

Options and Accessories

Repair	Standard fabric repair kits with hot air gun technology. Boom connector replacement kits
Anchoring and mooring systems available	Anchors - single / dual, Tide Slides, Pile Tether, Pile Slider
Storage / deployment systems available	Reels (static or trailer), Container systems, Racks
Customization	Light / Radar reflectors / hangers / size / section length / fabrics
Colors	yellow / orange
Marking	Silk screening
Packing	Bulk, wrapped in filtercloth, pallets, 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
ISO 9001



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