

MARBOOM[®]

"FIRST Response"

Material Specifications:

Boom	
Boom & Skirt Material:	LDPE(4), Polyethylene
Colors Standard:	Yellow (Signal) or Black Other colors available on special request.
Print information:	Spec. request
Freeboard (FB): Standard	10" (25 cm)
Skirt Draft:	14", 24", 36", 47", 60", 83" & larger on Spec. request. (35, 62, 92, 119, 153, 210 cm).& larger.
Boom Height (flat):	28", 38" 50" 61" 74" 97" & larger. (71, 98, 128, 155, 189, 246 cm) & larger.
Boom Length:	Any length. Can easily be cut to needed length. See Standard packagings.
Practical Length 1:	~ 200' (~66m) to carry by 1 person in a backpack.
Practical Length 2:	~ 300' (~100 m) in a box to carry by 2 persons.
Max Length (Boom #C1014*):	~ 1800 (~550 meter) in a "1 st Response Box".
Length per volume:	~ 46.3 ft/ cub.ft. (~500 meter/M3).
Boom Weight:	0.72 Lb/ft. (1.07 kg/meter)
Boom weight /100' (30m)	72 Lb. (33 kg)
Ballast Material:	Chain 1/4" (6.35mm)
Ballast Weight: (Standard)	0.58 Lb/ft. (0.86 kg/m)
Vertical CG:	no info in (mm)
Flotation Type:	Air, inflatable from each side of the boom.
Flotation Shape:	CS = cylinder segmented
Air distribution channel:	~ 3 1/4" (8.2 cm) diameter.
Flotation Repeat Length:	~26" (66 cm)
Flotation Member Length:	~24" (60 cm)
Waterline Beam:	~ 6" (15 cm)
Buoyancy Gross:	38
Buoyancy Effective:	36
Air holes per segment:	4
Air holes to segments:	184/ 100' (184/ 30 m) boom
Deployment:	Approximately 2- 3 min. / 330' (100 m)
Storage Volume:	~1640 ft./ 35.3 ft3. (500 m/m3).
Recyclable:	Yes 100%
Chain	
Type:	Proof Coil G-30. - (Others on spec request)
Surface:	HDG, Hot-Dip-Galvanized
Size:	1/4" (6.35 mm) wire diameter
Working Load Limit:	1300 Lb. (600 Kp.)
Weight:	0.58 Lb/ft. (0.86 kg/m)
Recyclable 100%:	Reuse the chain in a new Replacement Boom.

Plastic	
Material:	LDPE Polyethylene
Recycling Code:	LDPE 4
Film Thickness:	6 mil (153 my)
Density:	0.92 g/cc.
Melting Point:	252° F. (122° C.)
Softening point:	225° F. (108° C.)
Puncture resistance: (a)	min. 235 ft*Lb*ft/in3 (19 J/cc.)
Dart Impact: (a)	min. 288 g.
Tear: (a)	min. 1200 g.
Tensile Yield: (a)	min. 1783 psi (12 Mpa)
Ultimate Tensile: (a)	min. 7993 psi (50 Mpa.)
Ultimate Elongation: (a)	min. 889 %.
Toughness: (a)	min. 4241 ft*Lb*ft/in3. (351 J/cc.)
Tensile Modulus: (a)	min. 33,739 psi. (233 psi)
Toxicological Information:	None
Replacement Plastic:	Semi-manufactured Boom for chain installment "do-it-yourself"
Burns:	Clean blue flame (Cleaner than heating oil)
Recyclable 100%:	The plastic industry buys back the LDPE(4) material.
Operation	
Environment:	Deep, shallow waters, fresh & salt.
Wave height salt water: and wind:	3.2' (1.0 m) - Wind: (~) 14 knots, 15 mph, 7 m/s, 24 km/h.
Wave height fresh water: and Wind:	2.6' (0.8 m) - Wind: (~) 8.5 knots, 10 mph, 4.5 m/s, 16 km/h
MARBOOM performance:	Flexible boom with good heave response
Deployment time average:	2- 3 min. / 330 ft (100 m)
Tow Speed o Streamed:	6 knots
Tow Speed o Sweeping:	1.5 knots
Connecting two MARBOOM:	Yes
Connectors:	None
Connectors attachment to ASTM F962-94:	Planned.
Mooring attachment:	In the chain link along the total length. Just puncture the plastic, quick and easy, with the shackle or carabineer hook.
Usage temperature:	between 39- 130° F. (3- 55° C.)
UV Rating / Life span:	Yellow 1 and Black 2 years in tropical latitudes. To more northern and southern latitudes, the Life span increases, due less harmful UV-Rays.
Storage:	10+ years in closed box
Recovery and Storage:	See direction in box or on reel.
Personnel Required:	2
(a)	New even better test are made.
~	Approximately

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