

APPENDIX B: BUOY INFORMATION

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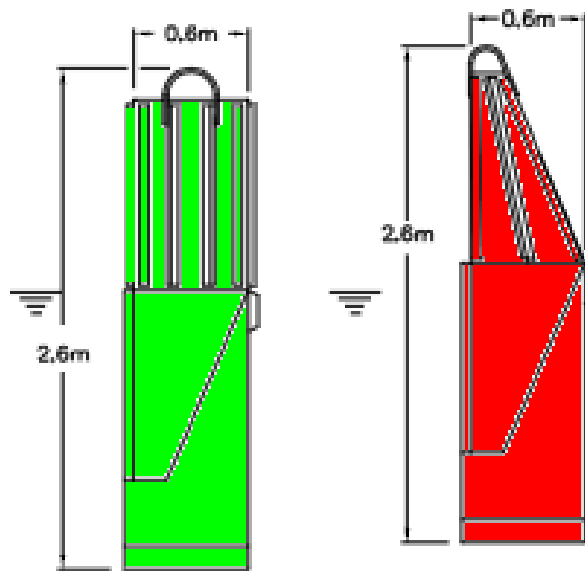
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Steel Buoys

0.6m Steel River Buoy 'Mackenzie' type (FA-2012 Can/ FA-2013 Cone)

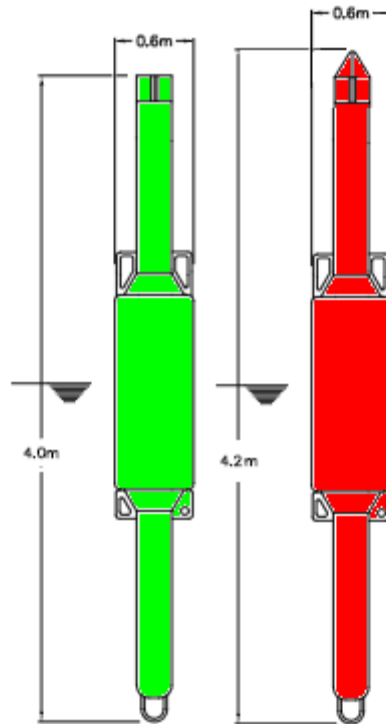
Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	0.6	0.6
Maximum Buoy Height (H)	m	2.6	2.6
Buoy Air Weight	kg	159	122
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Handling Lugs	-	1	1
Minimum Number of Mooring eyes	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	4/ 61*	4/ 61*
Typical Chain used	mm	14*	14*
Maximum Current	kt	4.5	4.5
Lifting Eye Safe Working Load (SWL)	kg	1586	1586
Minimum Lifting Lug Internal Diameter	mm	60	60
Minimum Mooring Eye Internal Diameter	mm	20	20
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	600	600



*-Denotes achievable water depth with corresponding chain on a chain scope of 2:1 in a catenary regime,

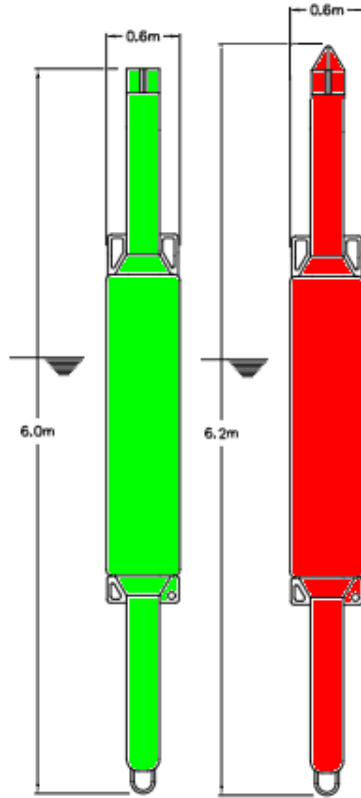
0.6m Short Steel Spar Buoy (FA-3006 Can/ FA-3006 Cone)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	0.6	0.6
Maximum Buoy Height (H)	m	4.0	4.2
Buoy Air Weight	kg	335	335
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Handling Lugs	-	2	2
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	5/ 13*	5/ 13*
Typical Chain used	mm	20*	20*
Maximum Current	kt	5	5
Lifting Eye Safe Working Load (SWL)	kg	3000	3000
Minimum Lifting Lug Internal Diameter	mm	85	85
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	1600	1600



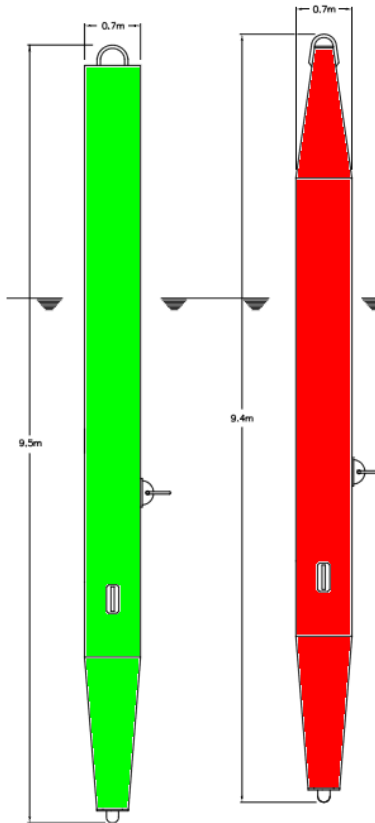
0.6m Long Steel Spar Buoy (FA-3005 Can/ FA-3005 Cone)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	0.6	0.6
Maximum Buoy Height (H)	m	6.0	6.2
Buoy Air Weight	kg	549	549
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	2	2
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	5/ 26*	5/ 26*
Typical Chain used	mm	20*	20*
Maximum Current	kt	5	5
Lifting Eye Safe Working Load (SWL)	kg	3000	3000
Minimum Lifting Eye Internal Diameter	mm	85	85
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	1600	1600



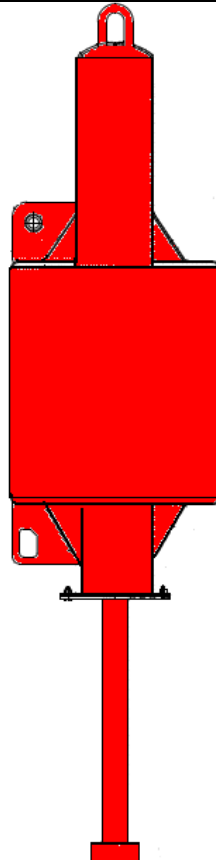
0.7m Steel Ice Spar Buoy (FA-3003 Can/ FA-3004 Cone)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	0.7	0.7
Maximum Buoy Height (H)	m	9.5	9.4
Buoy Air Weight	kg	2091	1970
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	1	1
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	9/ 32*	9/ 38*
Typical Chain used	mm	26*	26*
Maximum Current	kt	3	3
Lifting Eye Safe Working Load (SWL)	kg	5430	5430
Minimum Lifting Eye Internal Diameter	mm	150	80
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	2700	2700



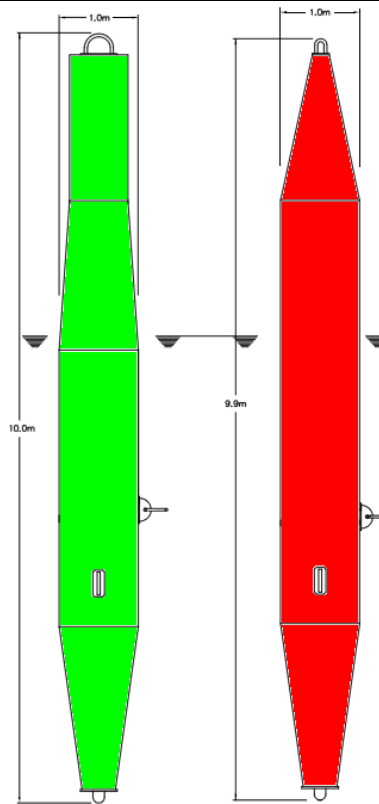
0.8 m Steel Electric Spar Buoy (Richelieu Buoy)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.8
Maximum Buoy Height (H)	m	3.04
Buoy Air Weight	kg	370
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Handling Lugs	-	1
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	6/12*
Typical Chain used	mm	14*
Maximum Current	kt	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	75
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	363-680



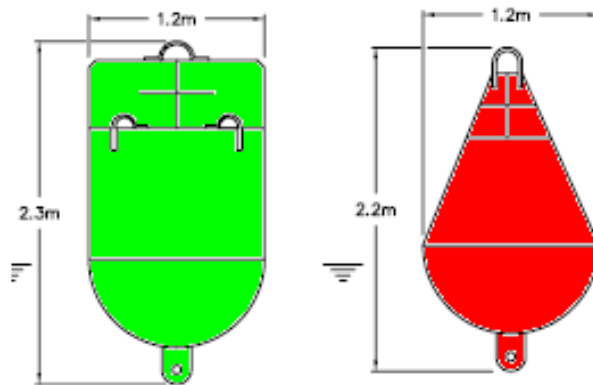
1.0 m Steel Ice Spar Buoy (FA-3002 Can/ FA-3001 Cone)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	1.0	1.0
Maximum Buoy Height (H)	m	10	9.9
Buoy Air Weight	kg	3957	3939
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	1	1
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	10/78*	10/75*
Typical Chain used	mm	26*	26*
Maximum Current	kt	5	5
Lifting Eye Safe Working Load (SWL)	kg	5430	5430
Minimum Lifting Eye Internal Diameter	mm	150	80
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	3600	3600



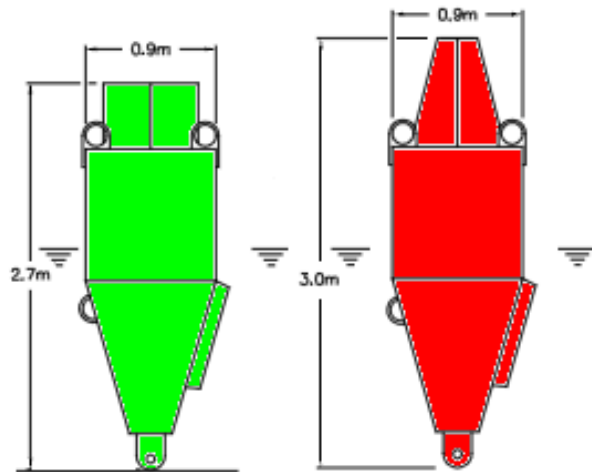
1.2 m Steel marker Buoy (FA-2004 Can/ FA-2003 Cone)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	1.2	1.2
Maximum Buoy Height (H)	m	2.3	2.2
Buoy Air Weight	kg	444	310
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	1	1
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	4.5 / 58*	4.5 / 58*
Typical Chain used	mm	20*	20*
Maximum Current	kt	4	4
Lifting Eye Safe Working Load (SWL)	kg	1285	1285
Minimum Lifting Eye Internal Diameter	mm	150	150
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	1400	1400



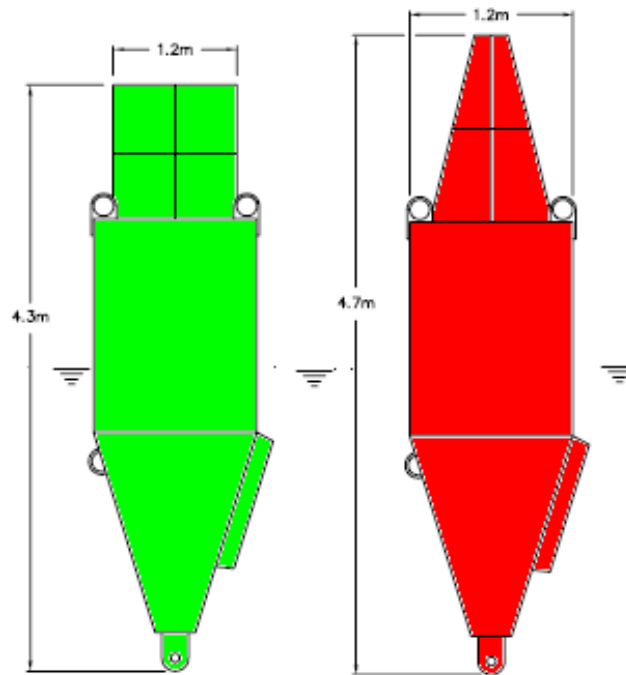
0.9 m Steel River Buoy (FA-2009 Can/ FA-2008 Cone)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	0.9	0.9
Maximum Buoy Height (H)	m	2.7	3.0
Buoy Air Weight	kg	530	1087
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	2	2
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	3 / 17*	3 / 17*
Typical Chain used	mm	20*	20*
Maximum Current	kt	3	3
Lifting Eye Safe Working Load (SWL)	kg	1590	1590
Minimum Lifting Eye Internal Diameter	mm	20	20
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	1500	1500



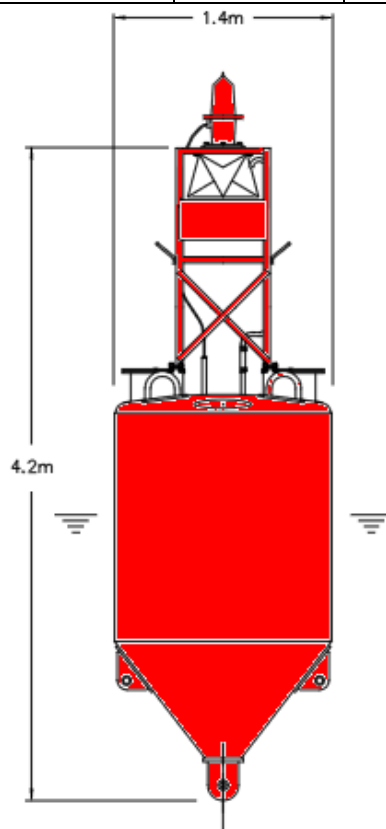
1.2 m Steel River Buoy (FA-2011 Can/ FA-2010 Cone)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	1.2	1.2
Maximum Buoy Height (H)	m	4.3	4.7
Buoy Air Weight	kg	1407	1352
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	2	2
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	3 / 17*	3 / 17*
Typical Chain used	mm	20*	20*
Maximum Current	kt	3	3
Lifting Eye Safe Working Load (SWL)	kg	1590	1590
Minimum Lifting Eye Internal Diameter	mm	150	150
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	1500	1500



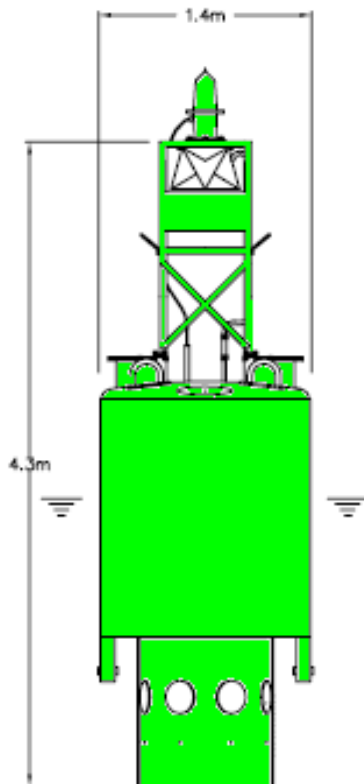
1.4 m Steel Pillar Buoy (FA-1001)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	1.4
Maximum Buoy Height (H)	m	4.2
Buoy Air Weight	kg	1880
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Handling Lugs	-	-
Minimum Number of Mooring lugs	-	2
Operational		
Minimum / Maximum Mooring depth	m	4 / 77*
Typical Chain used	mm	20*
Lifting Eye Safe Working Load (SWL)	kg	4060
Maximum Current	kt	3
Minimum Lifting Eye Internal Diameter	mm	150
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	1000
Typical Sinker Mass	kg	1200



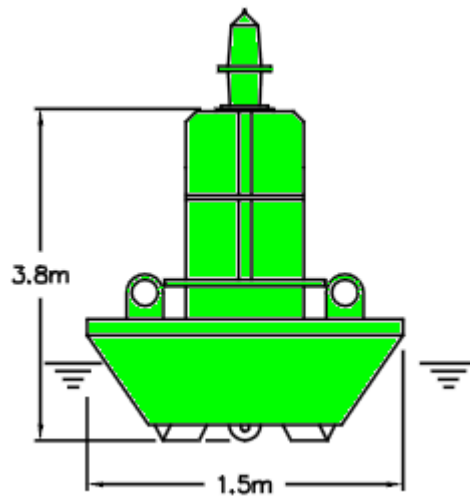
1.4 m Stand up Steel Pillar Buoy (FA-1002)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	1.4
Maximum Buoy Height (H)	m	4.2
Buoy Air Weight	kg	1880
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Handling Lugs	-	-
Minimum Number of Mooring lugs	-	2
Operational		
Minimum / Maximum Mooring depth	m	4 / 77*
Typical Chain used	mm	20*
Maximum Current	kn	3
Lifting Eye Safe Working Load (SWL)	kg	4060
Minimum Lifting Eye Internal Diameter	mm	150
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	1000
Typical Sinker Mass	kg	1200



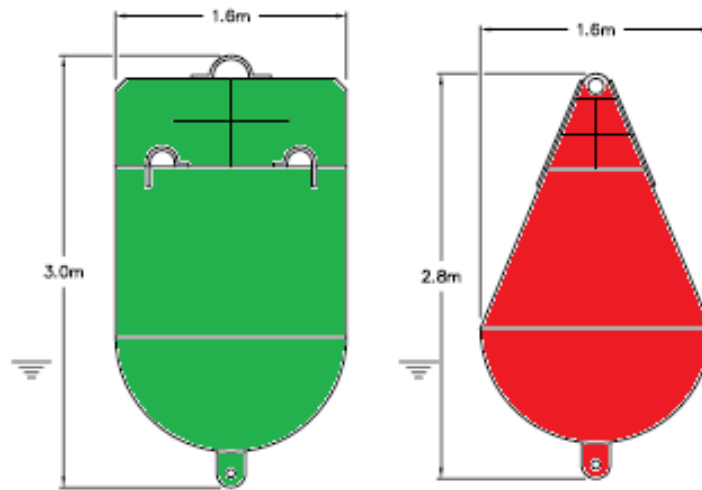
1.5 m Steel Discus Buoy (FA-1019)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	1.5
Maximum Buoy Height (H)	m	3.8
Buoy Air Weight	kg	264
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Handling Lugs	-	-
Minimum Number of Mooring lugs	-	2
Operational		
Minimum / Maximum Mooring depth	m	1.2 / 16*
Typical Chain used	mm	20*
Maximum Current	kt	3
Lifting Eye Safe Working Load (SWL)	kg	1830
Minimum Lifting Eye Internal Diameter	mm	125
Minimum Mooring Eye Internal Diameter	mm	80
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	500



1.6 m Steel Coastal Buoy (FA-2005 Can/ FA-2006 Cone)

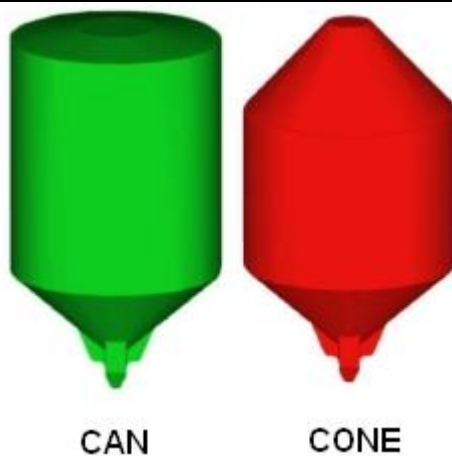
Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	1.6	1.6
Maximum Buoy Height (H)	m	3.0	2.8
Buoy Air Weight	kg	801	487
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	1	1
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m		
Typical Chain used	mm		
Maximum Current	kt		
Maximum Lantern Weight	kg	-	-
Lifting Eye Safe Working Load (SWL)	kg		
Minimum Lifting Eye Internal Diameter	mm	63	63
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	-	-



Plastic Buoys

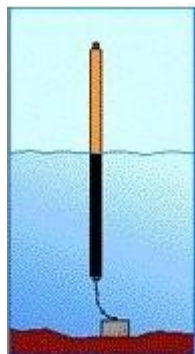
Plastic Marker Buoy (GD1 1.22 Can/Cone)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	1.22	1.22
Maximum Buoy Height (H)	m	2.34	2.34
Buoy Air Weight	kg	130	130
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	0	0
Minimum Number of Mooring lugs	-	1	1
Operational			
Minimum / Maximum Mooring depth	m	-	-
Typical Chain used	mm	-	-
Maximum Current	kt	-	-
Maximum Lantern Weight	kg	32	32
Lifting Eye Safe Working Load (SWL)	kg	-	-
Minimum Lifting Eye Internal Diameter	mm	-	-
Minimum Mooring Eye Internal Diameter	mm	43	43
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	-	-



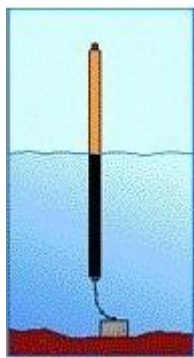
Small Plastic Spar Buoy (Meritaito VEP 2.0)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.16/ 0.22
Maximum Buoy Height (H)	m	3.3
Buoy Weight Range	kg	40
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	-
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	1.5 /20
Typical Chain used	mm	No chain, polypropylene rope 20
Maximum Current	kt	4
Maximum Lantern Weight	kg	2,0
Lifting Eye Safe Working Load (SWL)	kg	No lifting eyes
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	18
Typical Counterweight Mass	kg	16
Typical Sinker Mass	kg	500



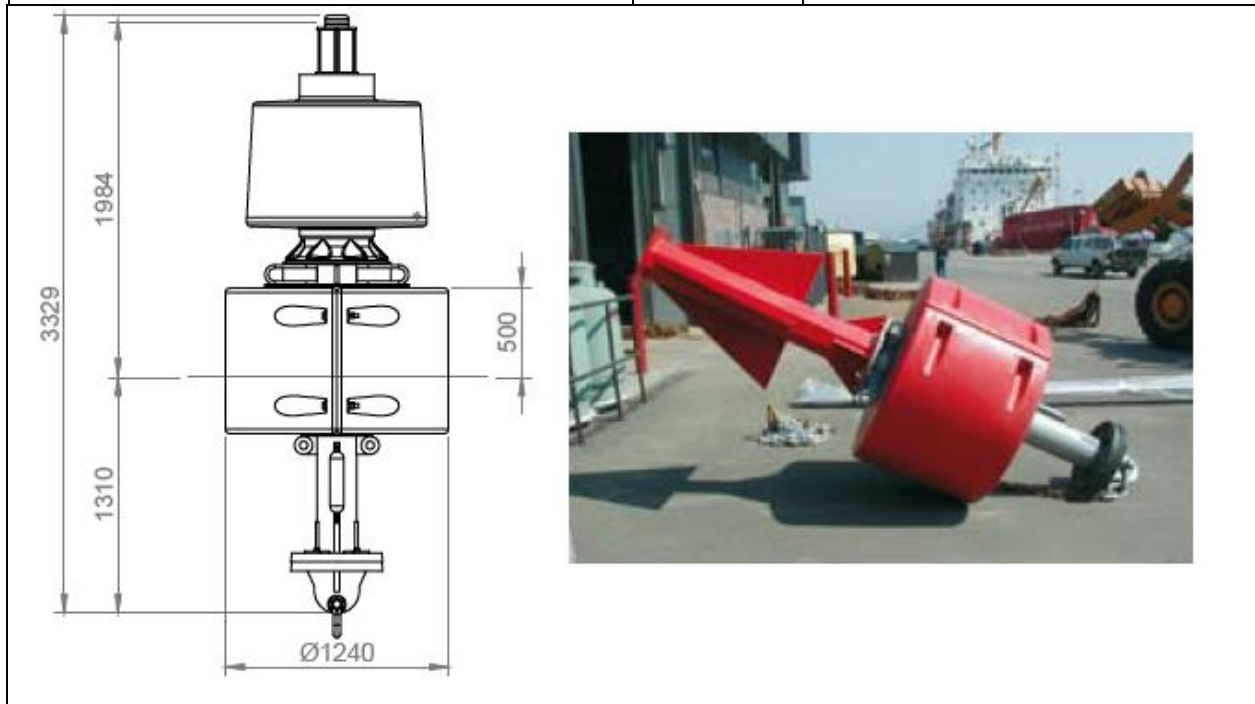
Small Plastic Spar Buoy (Meritaito VPU 225/355)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.23
Maximum Buoy Height (H)	m	4.0
Buoy Weight Range	kg	105
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	-
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	2.5 /50
Typical Chain used	mm	No chain, polypropylene rope 20
Maximum Current	kt	5
Maximum Lantern Weight	kg	10,0
Lifting Eye Safe Working Load (SWL)	kg	No lifting eyes
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	18
Typical Counterweight Mass	kg	32
Typical Sinker Mass	kg	1500



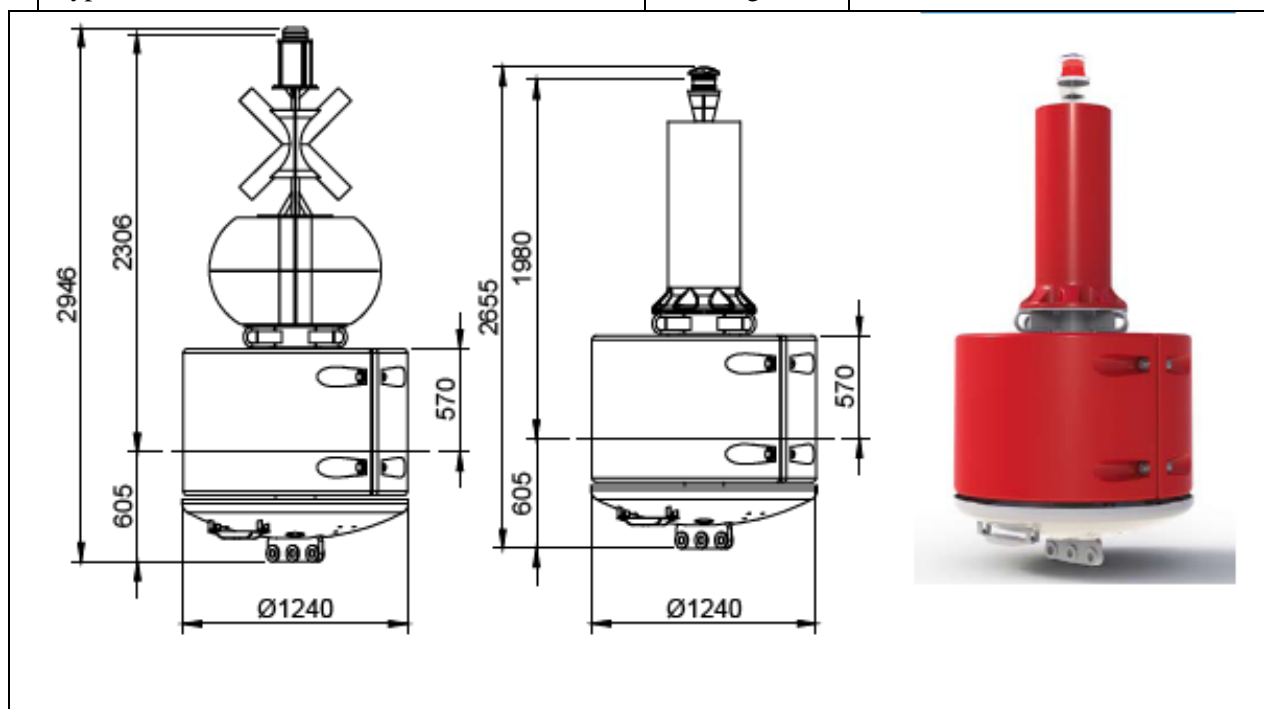
Plastic Pillar Buoy (Mobilis BC1242)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	1.24
Maximum Buoy Height (H)	m	3.4
Buoy Weight Range (no ballast)	kg	260
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	4
Minimum Number of Mooring lugs	-	2
Operational		
Minimum / Maximum Mooring depth	m	-
Typical Chain used	mm	14
Maximum Current	kt	0 - 6
Maximum Lantern Weight	kg	20
Lifting Eye Safe Working Load (SWL)	kg	2400
Minimum Lifting Eye Internal Diameter	mm	75
Minimum Mooring Eye Internal Diameter	mm	40
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	150



Plastic Pillar Buoy (Mobilis FB1242)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	1.24
Maximum Buoy Height (H)	m	3.1
Buoy Weight Range (no ballast)	kg	270
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	4
Minimum Number of Mooring lugs	-	3
Operational		
Minimum / Maximum Mooring depth	m	-
Typical Chain used	mm	14
Maximum Current	kt	0 - 6
Maximum Lantern Weight	kg	20
Lifting Eye Safe Working Load (SWL)	kg	2400
Minimum Lifting Eye Internal Diameter	mm	75
Minimum Mooring Eye Internal Diameter	mm	40
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	150



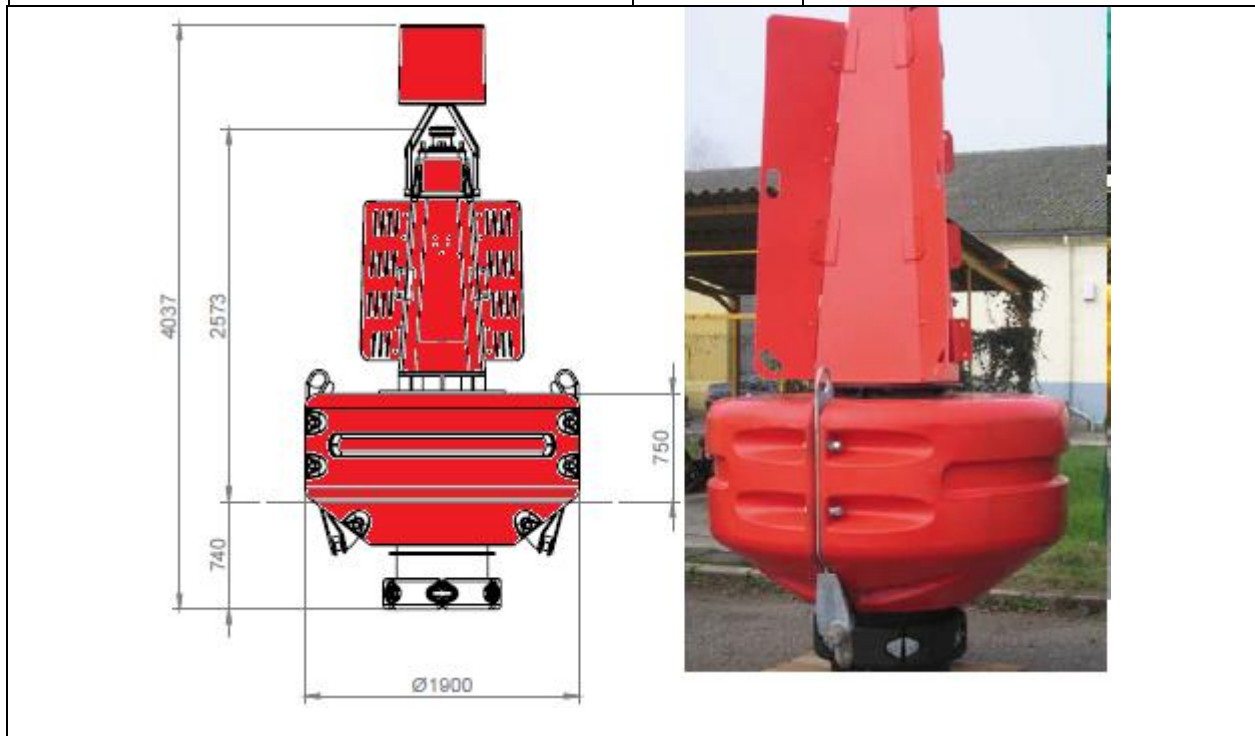
Plastic River Buoy (Mobilis Trackless)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	-
Maximum Buoy Height (H)	m	-
Buoy Weight Range (no ballast)	kg	40
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	-
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	6/10
Typical Chain used	mm	14
Maximum Current	kt	10
Maximum Lantern Weight	kg	15
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	250-2500



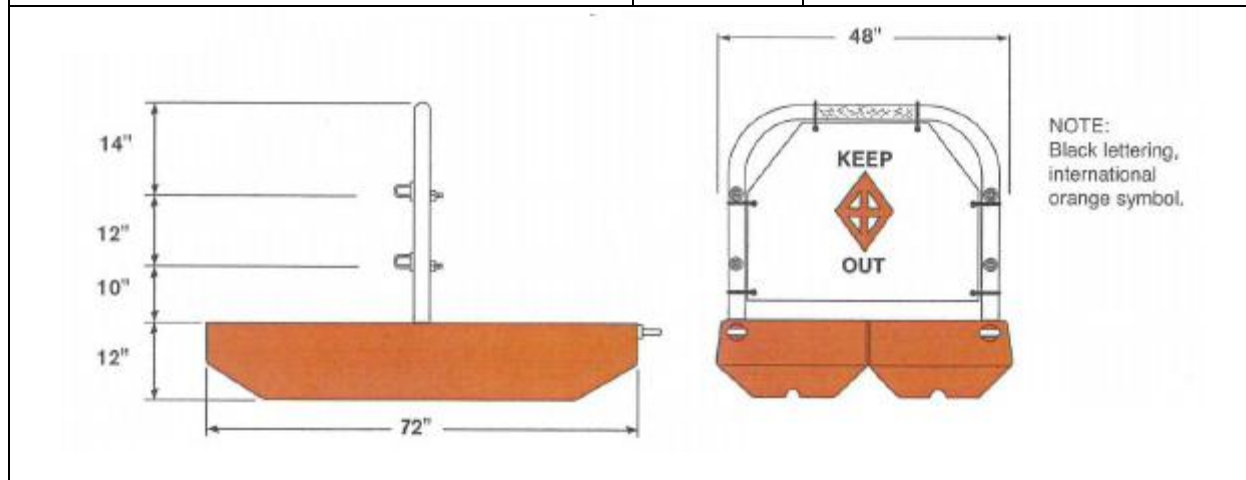
Plastic Pillar Buoy (Mobilis Jet 2000)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	1.90
Maximum Buoy Height (H)	m	4.0
Buoy Weight Range (no ballast)	kg	2100
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	2
Minimum Number of Mooring lugs	-	2
Operational		
Minimum / Maximum Mooring depth	m	6/30
Typical Chain used	mm	32
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	2500



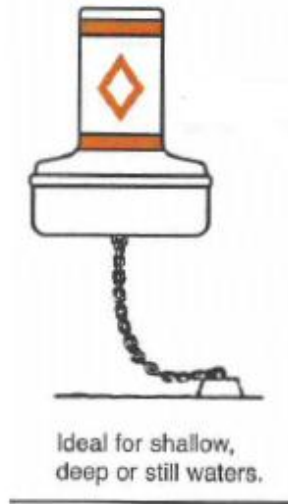
Plastic Pontoon Float Buoy (Roylan B4872)

Dimensional Requirements	Units	Value
Maximum Hull Length	m	72 in
Maximum Hull Width	m	48 in
Maximum Buoy Height (H)	m	48 in
Buoy Weight Range	kg	200 lbs
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	-
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	-
Typical Chain used	mm	-
Maximum Current	kn	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	-



Plastic Marker Buoy (Roylan B1428SW)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	14 in
Maximum Buoy Height (H)	m	30 in
Buoy Weight Range	kg	105 lbs
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	-
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	-
Typical Chain used	mm	-
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	-



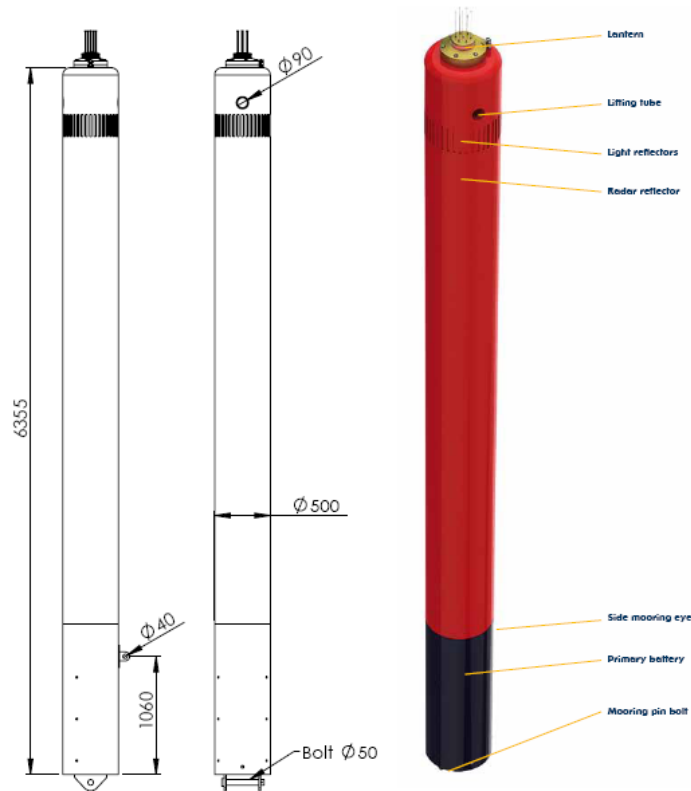
Plastic Spar Buoy (Roylan B961R)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	9 in
Maximum Buoy Height (H)	m	60 in
Buoy Weight Range	kg	49 lbs
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Handling Lugs	-	-
Minimum Number of Mooring lugs	-	-
Operational		
Minimum / Maximum Mooring depth	m	-
Typical Chain used	mm	-
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	-



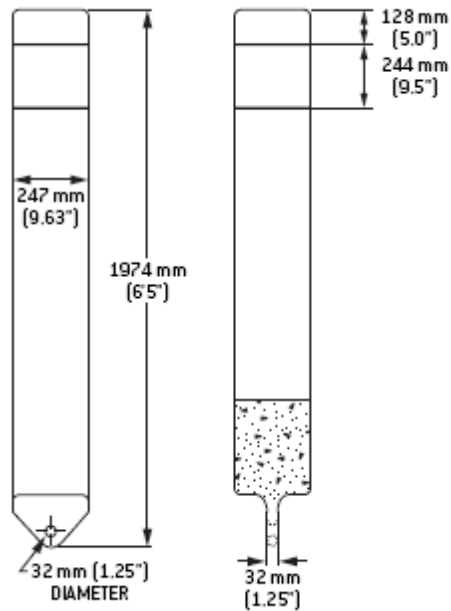
Plastic Ice Spar Buoy (Sabik SVV-500)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.5
Maximum Buoy Height (H)	m	6.47
Buoy Weight Range (includes internal batter)	kg	430
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	1
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	-
Typical Chain used	mm	26
Maximum Current	kt	1.5
Maximum Lantern Weight	kg	25
Lifting Eye Safe Working Load (SWL)	kg	1,200
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	0.09
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	1133-2266



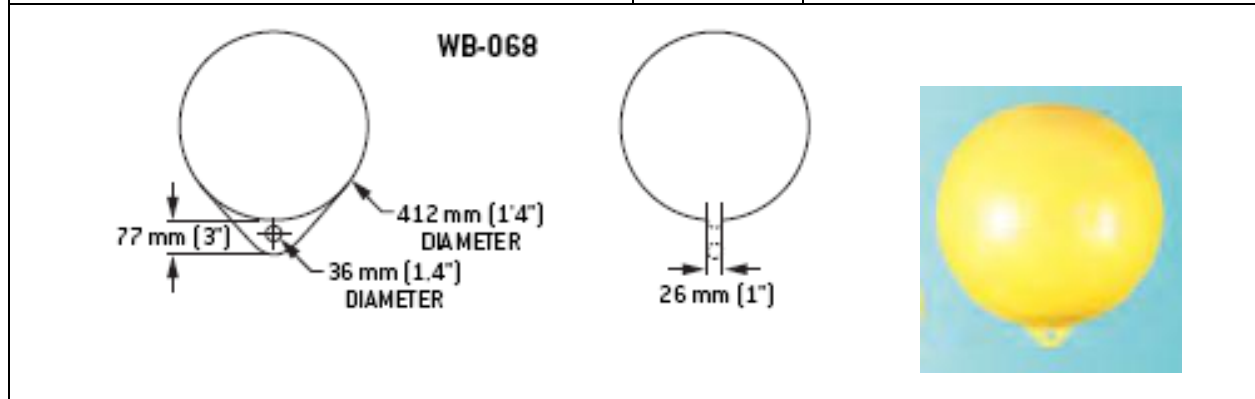
Plastic Spar Buoy (Tideland SB23)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.247
Maximum Buoy Height (H)	m	1.974
Buoy Weight Range	kg	43
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Handling Lugs	-	0
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	3/8
Typical Chain used	mm	14
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	32
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	500-750



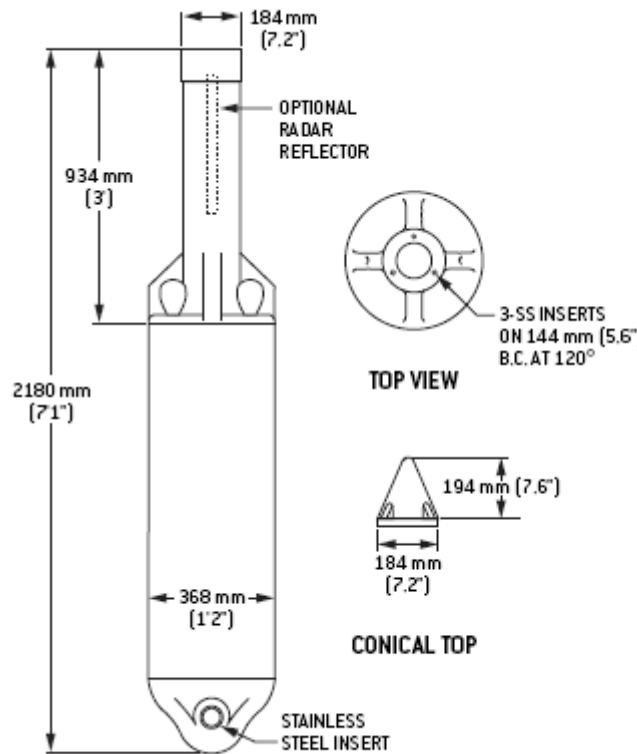
Plastic Marker Buoy (Tideland WB-068)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.412
Maximum Buoy Height (H)	m	0.412
Buoy Weight Range	kg	1.8
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	0
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	-
Typical Chain used	mm	-
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	36
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	-



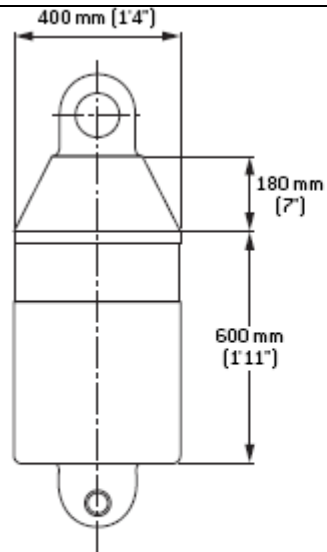
Plastic Spar Buoy 'ORT' type (Tideland SB30)

Dimensional Requirements	Units	Value
Maximum Hull Diameter Max.(W)	m	0.368
Maximum Hull Diameter Min.(W)	m	0.184
Maximum Buoy Height (H)	m	2.18
Buoy Weight Range	kg	39
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	2
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	3/12
Typical Chain used	mm	14-20
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	49
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	136-340

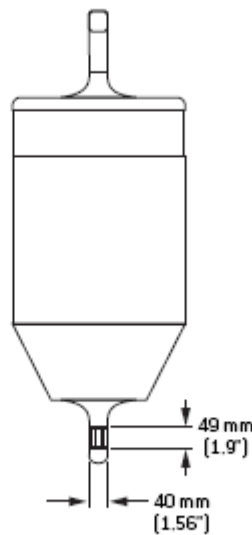


Plastic Marker Buoy (Tideland SB40)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.400
Maximum Buoy Height (H)	m	1.17
Buoy Weight Range	kg	10.4
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	1
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	3/12
Typical Chain used	mm	14
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	49
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	60-136



**SB-40
CONICAL TOP**

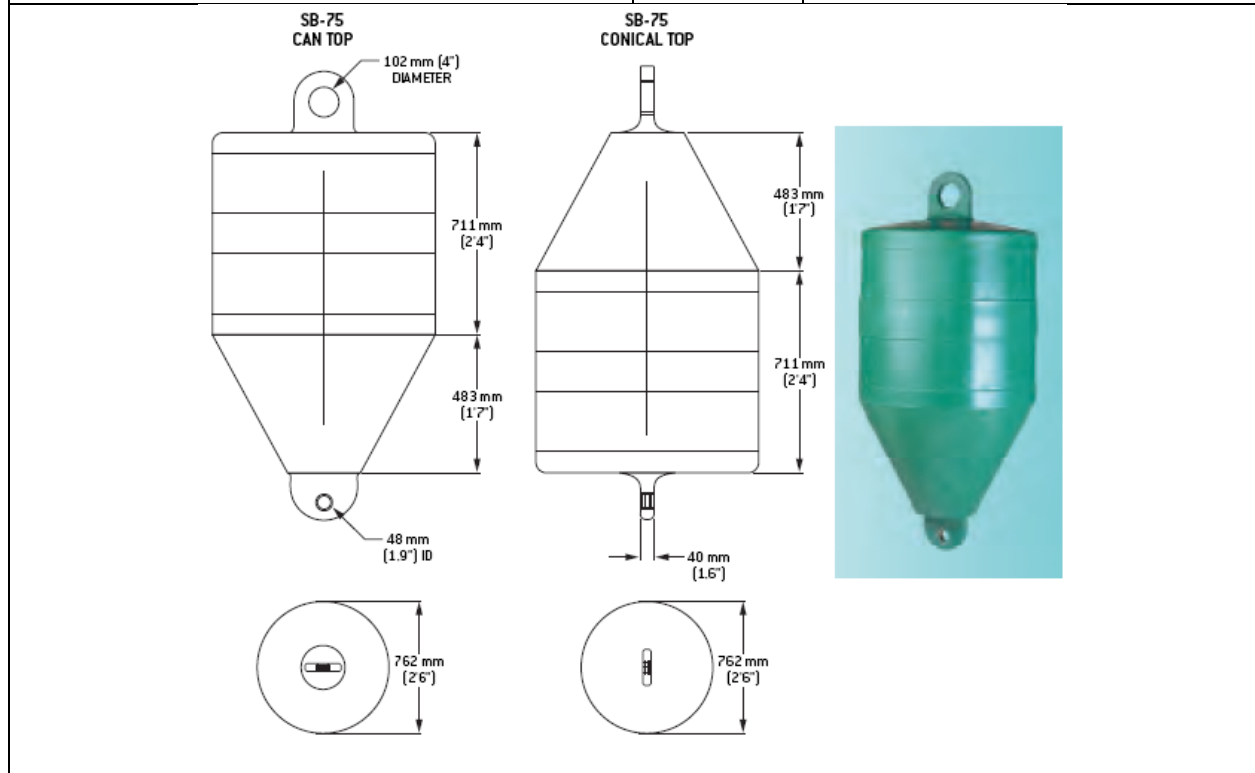


**SB-40
CAN SIDE VIEW**



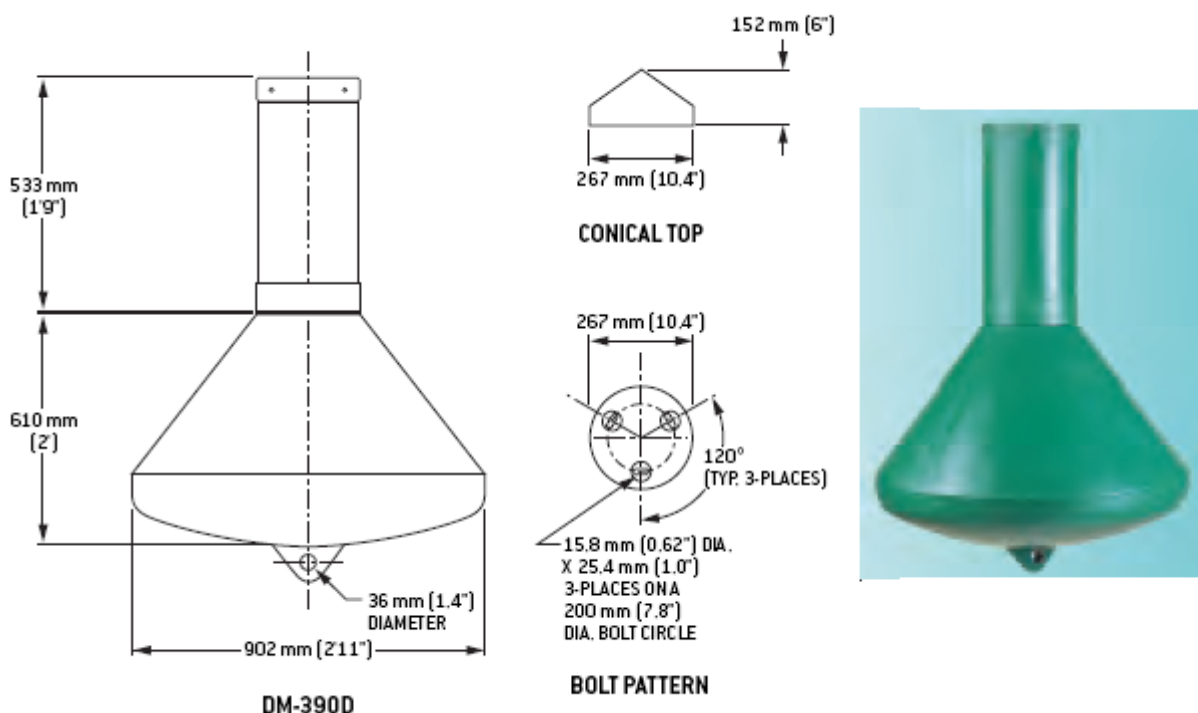
Plastic Marker Buoy (Tideland SB75)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.747
Maximum Buoy Height (H)	m	1.562
Buoy Weight Range	kg	34
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	1
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	1.5/12.5
Typical Chain used	mm	14-20
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	48
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	40-90



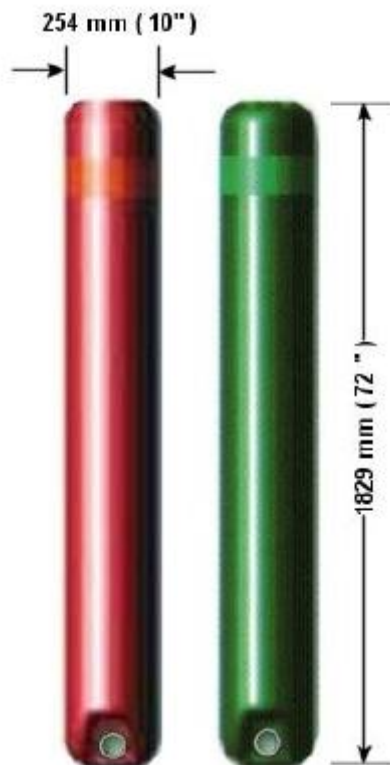
Plastic Marker Buoy (Tideland DM390)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.747
Maximum Buoy Height (H)	m	1.562
Buoy Weight Range	kg	34
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	1
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	4/12
Typical Chain used	mm	14
Maximum Current	kt	-
Maximum Lantern Weight	kg	5
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	48
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	180-220



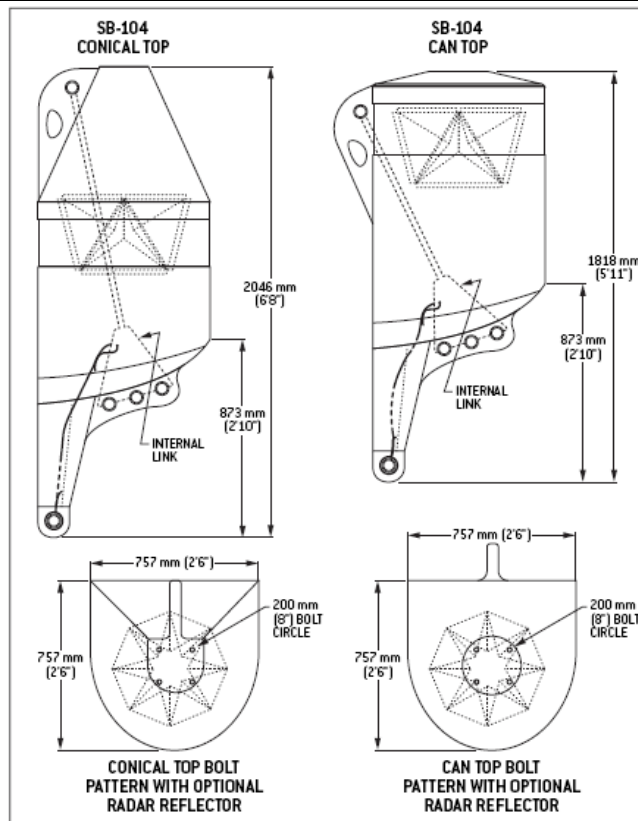
Plastic Marker Buoy (Go Deep GDI 0.25)

Dimensional Requirements	Units	Value
Maximum Hull Diameter (W)	m	0.254
Maximum Buoy Height (H)	m	1.83
Buoy Weight Range	kg	39
Overall Buoy Silhouette	-	See below
Equipment Requirements		
Minimum Number of Lifting Lugs	-	0
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	2/ 10
Typical Chain used	mm	14-20
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	150/350



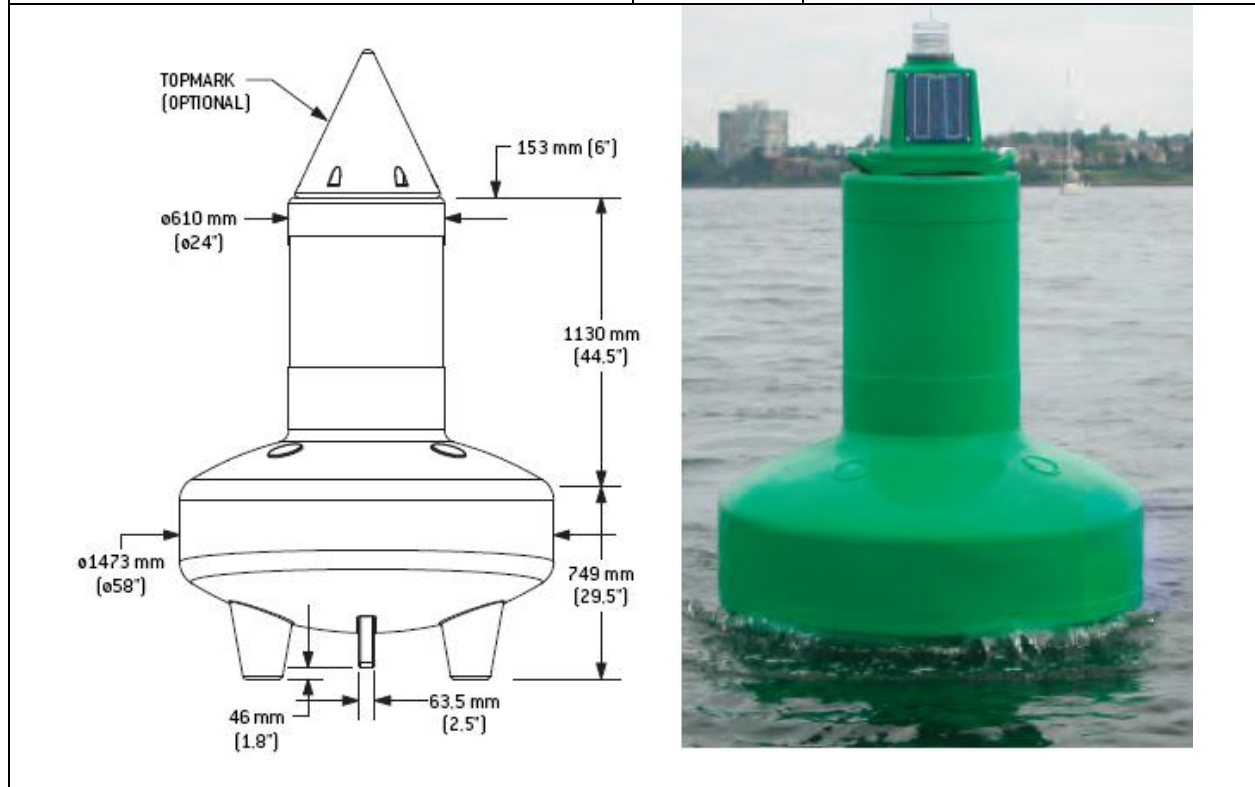
Plastic Fast Water Buoy (Tideland SB104)

Dimensional Requirements	Units	Value (Can)	Value (Cone)
Maximum Hull Diameter (W)	m	0.757	0.757
Maximum Buoy Height (H)	m	1.818	2.046
Buoy Air Weight (no ballast)	kg	45.4	45.4
Overall Buoy Silhouette	-	See below	See below
Equipment Requirements			
Minimum Number of Lifting Lugs	-	1	1
Minimum Number of Mooring lugs	-	1	1
Lifting and Mooring Eyes			
Minimum / Maximum Mooring depth	m	5	5
Typical Chain used	mm	20	20
Maximum Current	kt	3	3
Maximum Lantern Weight	kg	-	-
Lifting Eye Safe Working Load (SWL)	kg	-	-
Minimum Lifting Eye Internal Diameter	mm	-	-
Minimum Mooring Eye Internal Diameter	mm	-	-
Typical Counterweight Mass	kg	-	-
Typical Sinker Mass	kg	1400-1600	1400-1600



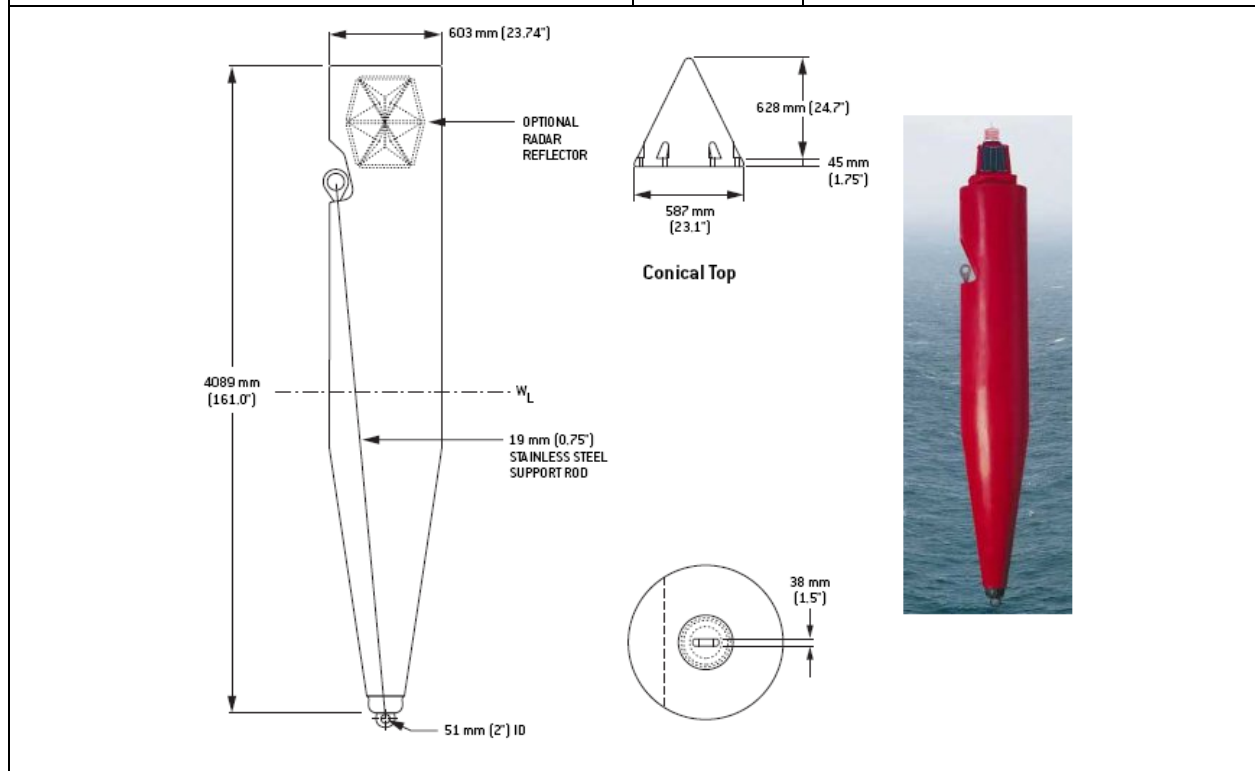
Medium Plastic Pillar Buoy (SB98)

Dimensional Requirements	Units	Value
Minimum Hull Diameter (W)	m	0.60
Maximum Hull Diameter (W)	m	1.50
Maximum Buoy Height (H)	m	1.9
Buoy Weight Range	kg	261
Overall Buoy Silhouette	-	(see below)
Equipment Requirements		
Minimum Number of Lifting Lugs	-	1
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	2/20
Typical Chain used	mm	20
Maximum Current	kt	-
Maximum Lantern Weight	kg	15
Lifting Eye Safe Working Load (SWL)	kg	840
Minimum Lifting Eye Internal Diameter	mm	100
Minimum Mooring Eye Internal Diameter	mm	55
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	1000-3000



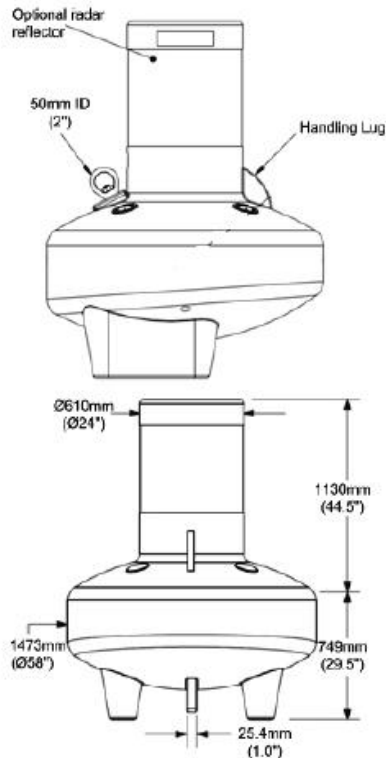
Large Plastic Spar Buoy (SB60)

Dimensional Requirements	Units	Value
Minimum Hull Diameter (W)	m	0.60
Maximum Buoy Height (H)	m	4.09
Buoy Weight Range	kg	95
Overall Buoy Silhouette	-	(see below)
Equipment Requirements		
Minimum Number of Lifting Lugs	-	1
Minimum Number of Handling Lugs	-	0
Minimum Number of Mooring lugs	-	1
Minimum Hull Diameter (W)	m	0.60
Operational		
Minimum / Maximum Mooring depth	m	3/12
Typical Chain used	mm	14-20
Maximum Current	kt	-
Maximum Lantern Weight	kg	15
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	1065-2267



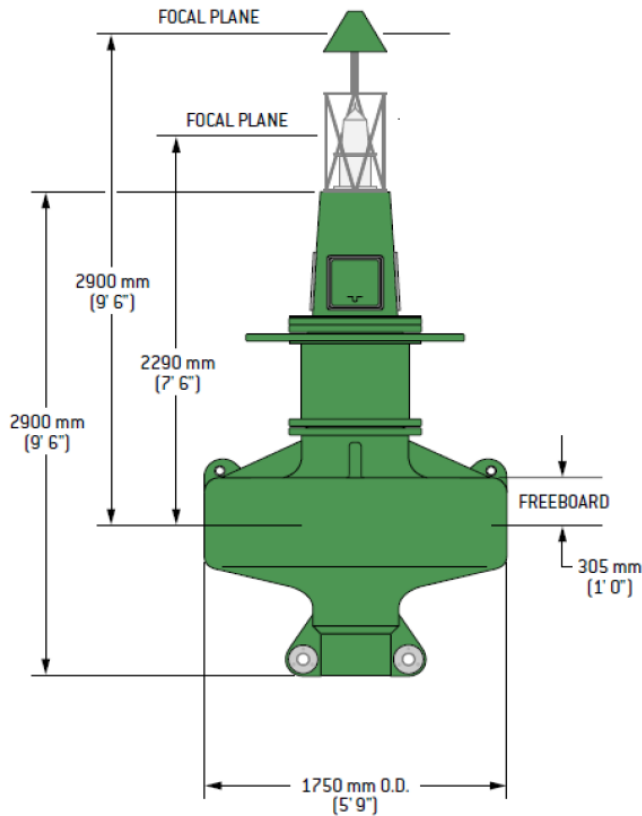
Medium Plastic Pillar Buoy (SB1500)

Dimensional Requirements	Units	Value
Minimum Hull Diameter (W)	m	0.60
Maximum Hull Diameter (W)	m	1.50
Maximum Buoy Height (H)	m	2.8
Buoy Weight Range	kg	235 - 287
Overall Buoy Silhouette	-	(see below)
Equipment Requirements		
Minimum Number of Lifting Lugs	-	1
Minimum Number of Mooring lugs	m	1
Operational		
Minimum / Maximum Mooring depth	m	2/20
Typical Chain used	mm	20
Maximum Current	kt	-
Maximum Lantern Weight	kg	15
Lifting Eye Safe Working Load (SWL)	kg	840
Minimum Lifting Eye Internal Diameter	mm	100
Minimum Mooring Eye Internal Diameter	mm	55
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	1000-3000



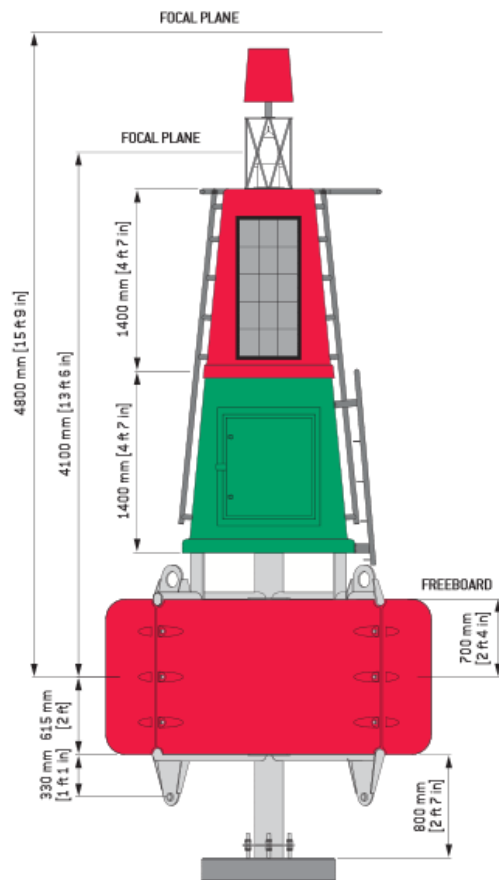
Large Plastic Pillar Buoy (Tideland SB138)

Dimensional Requirements	Units	Value
Minimum Hull Diameter (W)	m	-
Maximum Hull Diameter (W)	m	1.75
Maximum Buoy Height (H)	m	2.8
Buoy Weight Range	kg	454
Overall Buoy Silhouette	-	(see below)
Equipment Requirements		
Minimum Number of Lifting Lugs	-	2
Minimum Number of Mooring lugs	m	2
Operational		
Minimum / Maximum Mooring depth	m	3/65
Typical Chain used	mm	26
Maximum Current	kt	6
Maximum Lantern Weight	kg	20
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	1800



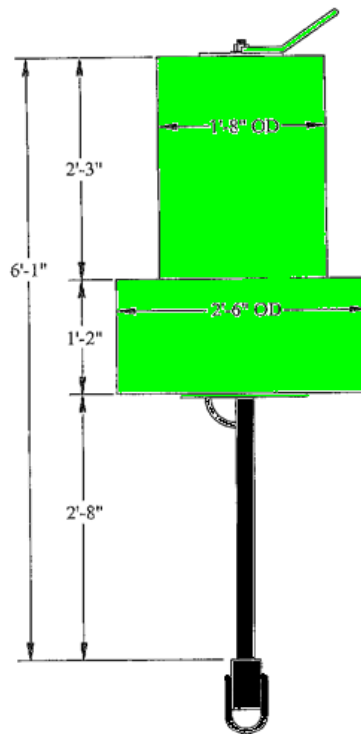
Large Plastic Pillar Buoy (Tideland SB285)

Dimensional Requirements	Units	Value
Minimum Hull Diameter (W)	m	-
Maximum Hull Diameter (W)	m	2.50
Maximum Buoy Height (H)	m	6.0
Buoy Weight Range	kg	2400
Overall Buoy Silhouette	-	(see below)
Equipment Requirements		
Minimum Number of Lifting Lugs	-	2
Minimum Number of Mooring lugs	m	2
Operational		
Minimum / Maximum Mooring depth	m	10/75
Typical Chain used	mm	26-32
Maximum Current	kt	6
Maximum Lantern Weight	kg	20
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	2000-3000



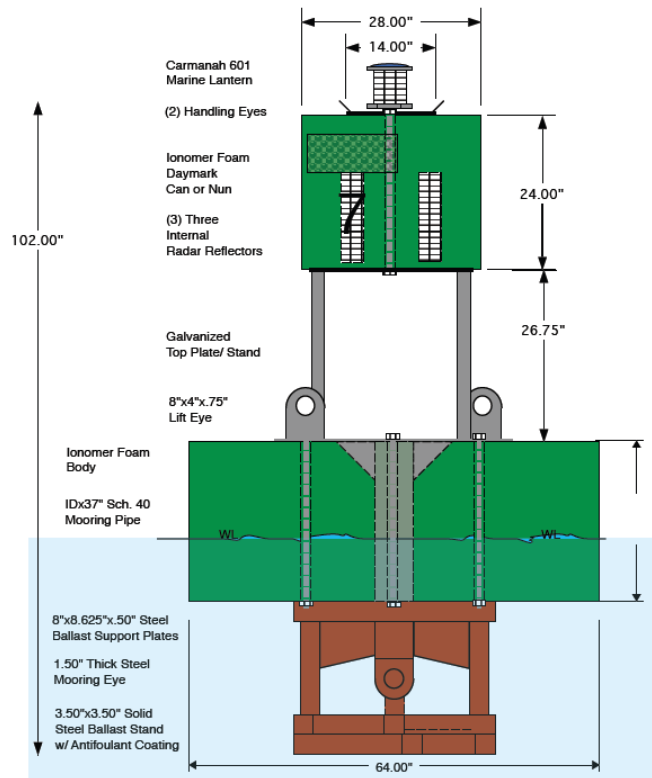
Small Plastic Foam Buoy (Gilman 5CFR)

Dimensional Requirements	Units	Value
Minimum Hull Diameter (W)	m	0.76
Maximum Hull Diameter (W)	m	0.76
Maximum Buoy Height (H)	m	1.85
Buoy Weight Range	kg	50
Overall Buoy Silhouette	-	(see below)
Equipment Requirements		
Minimum Number of Lifting Lugs	-	2
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	3/ 12.5
Typical Chain used	mm	12
Maximum Current	kt	-
Maximum Lantern Weight	kg	-
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	226




Small Plastic Foam Buoy (Gilman 5x9)

Dimensional Requirements	Units	Value
Minimum Hull Diameter (W)	m	0.85
Maximum Hull Diameter (W)	m	1.63
Maximum Buoy Height (H)	m	2.63
Buoy Weight Range	kg	660-670
Overall Buoy Silhouette	-	(see below)
Equipment Requirements		
Minimum Number of Lifting Lugs	-	2
Minimum Number of Mooring lugs	-	1
Operational		
Minimum / Maximum Mooring depth	m	10/ 45
Typical Chain used	mm	26-32
Maximum Current	kt	-
Maximum Lantern Weight	kg	10
Lifting Eye Safe Working Load (SWL)	kg	-
Minimum Lifting Eye Internal Diameter	mm	-
Minimum Mooring Eye Internal Diameter	mm	-
Typical Counterweight Mass	kg	-
Typical Sinker Mass	kg	100



0.6m CCG design Plastic Ice Spar Buoys ('Charlottetown')

Dimensional Requirements	Units	Value (14 ft)	Value (18 ft)	Value (21 ft)
Maximum Hull Diameter (W)	m	0.60	0.60	0.60
Maximum Buoy Height (H)	m	4.26	5.48	6.40
Buoy Weight Range	kg	508	703	850
Overall Buoy Silhouette	-	(see below)	(see below)	(see below)
Equipment Requirements				
Minimum Number of Lifting Lugs	-	1	1	1
Minimum Number of Mooring lugs	-	1	1	1
Operational				
Minimum / Maximum Mooring depth	m	3/15	4/30	5/40
Typical Chain used	mm	26-32	26-32	26-32
Maximum Current	kt	1.4	1.4	1.4
Maximum Lantern Weight	kg	15	15	15
Lifting Eye Safe Working Load (SWL)	kg	840	840	840
Minimum Lifting Eye Internal Diameter	mm	100	100	100
Minimum Mooring Eye Internal Diameter	mm	55	55	55
Typical Counterweight Mass	kg	-	-	-
Typical Sinker Mass	kg	600/1000	600/1200	800/1800
				

Medium Plastic Coastal/Harbour Buoy
(Replaces 1.4 M steel Pillar Buoys FA-1001/FA-1002)

Dimensional Requirements	Units	Value
Minimum Hull Diameter (W)	m	-
Maximum Hull Diameter (W)	m	1.50
Maximum Buoy Height (H)	m	5.5
Buoy Weight Range	kg	400-700
Overall Buoy Silhouette	-	(see below)
Equipment Requirements		
Minimum Number of Lifting Lugs	-	2
Minimum Number of Mooring lugs	-	2
Operational		
Minimum / Maximum Mooring depth	m	-
Typical Chain used	mm	28-32
Maximum Current	kt	4
Maximum Lantern Weight	kg	20
Lifting Eye Safe Working Load (SWL)	kg	840
Minimum Lifting Eye Internal Diameter	mm	100
Minimum Mooring Eye Internal Diameter	mm	55
Typical Counterweight Mass	kg	100-250
Typical Sinker Mass	kg	3000-4000

