

Rolyan Buoy[®]

BUOYS



ROLYANBUOYS.COM | ENGINEERING CONFIDENCE

Since 1969, we've been designing and manufacturing dependable buoys and floats that meet or exceed regulations—and expectations.

Built into every one of our hand-inspected, locally produced products is a superior level of confidence.

And, just as you can depend on our products to deliver in any situation or condition, you can depend on our company in the very same way.

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Safety Over Everything

Statement of Limited Warranty

Limited Warranty. Rolyan® Buoy warrants that all goods shall be free from manufacturing defects for a period of one year from the date of shipment. OTHER THAN THE FOREGOING WARRANTY, ROLYAN® BUOYS MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER RELATING TO THE GOODS. Upon a determination by Rolyan® Buoy that a product is defective, Rolyan® Buoy's sole and exclusive obligation shall be to provide Buyer with a replacement product or a full refund of the purchase price, at the sole discretion of Rolyan® Buoy, and to reimburse Buyer for any return freight costs. In no event shall Rolyan® Buoy be liable for any other costs or expenses including but not limited to lost profits or direct, indirect, consequential, incidental or punitive damages.





We want to keep your waterways safe, so that everyone can enjoy them as much as we do.

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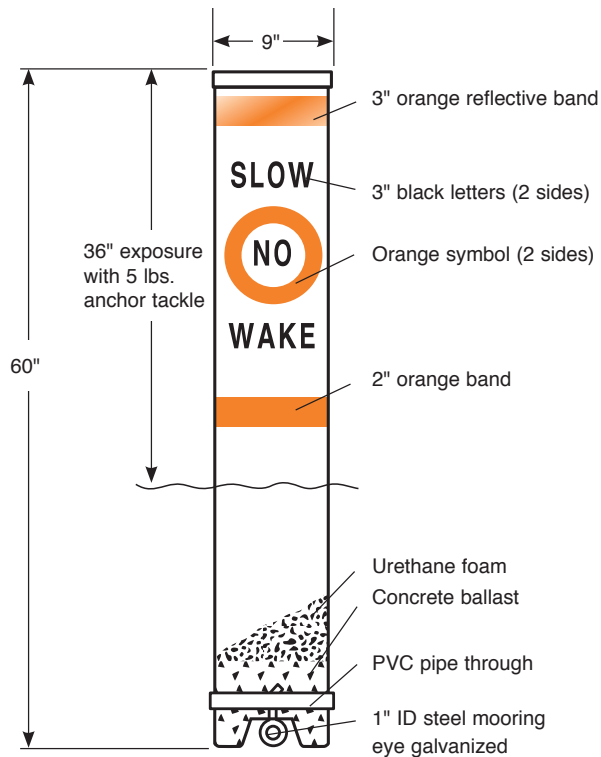
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Regulatory Buoys • Ultra Heavy Duty • 9" Diameter

Super-tough regulatory buoy | Designed for problem areas where buoys are subject to abuse and vandalism



MODEL B961R

FEATURES

- 9" diameter white super-tough HDPE shell
- Ultraviolet inhibited
- Shatter-proof—will not crack, chip, peel or rust
- Completely urethane foam filled
- Virtually unsinkable
- 3" wide reflective band at top provides excellent night visibility
- Self-righting without tackle
- Recessed cap allows buoy to stand upright
- Heavy steel galvanized anchoring eye cast in an internal concrete ballast
- Inland waterway marking symbols with standard messages included
- Includes choice of standard symbols and messages
- Replacement wrappers available, see page 21

AVAILABLE OPTIONS

- Pickup eye built into top
- Stainless steel anchoring eye for salt water applications
- Agency or name identification
- Special non-standard messages
- Solar lights, see page 14
- Cone cap top
- Side mooring eyes for swim areas or float lines

Specify symbols and messages when ordering, see page 22

Submerged buoyancy	84 lbs.
Net weight	49 lbs.
Shipping weight	56 lbs.

Refer to installation suggestions on page 24

See warranty information on inside front cover

Communication that's crisper, more vibrant, and safer for the environment

BENEFITS OF OUR NEW WRAPPERS

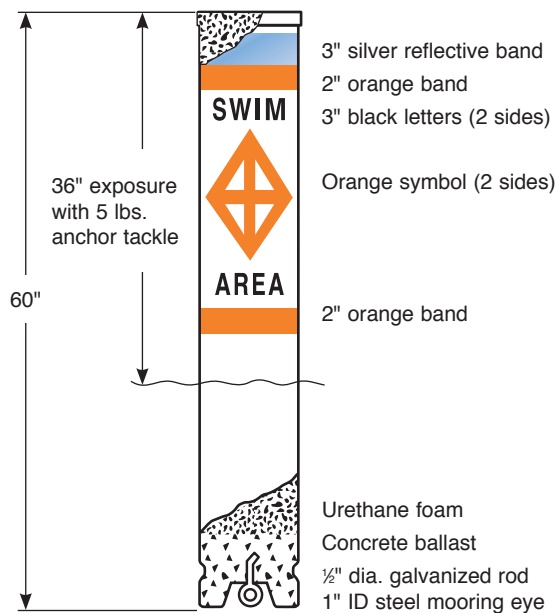
- Produced with inks safer for our environment* and our manufacturing employees
- Outperformed other media types in ASTM D5894 test methods for weathering and corrosion
- Symbols and text stay vibrant after exposure to sun and weather elements
- Wrappers are designed digitally, producing consistent graphics every time; no need to apply messages word by word

*Printing technology has earned UL Ecologo and UL Greenguard certifications



Regulatory Buoys • ABS Type • 9" Diameter

Approved and universally used by local, state and federal agencies to ensure water safety | Ideal for private applications



MODEL B1147R

FEATURES

- 9" diameter, white, ABS plastic exterior
- Will not rust, chip or peel
- Ultraviolet inhibited
- Completely urethane foam filled
- Virtually unsinkable
- 3" wide reflective band at top provides excellent nighttime visibility
- Self-righting without tackle
- Recessed cap allows buoy to stand upright
- Heavy steel galvanized anchoring eye cast in an internal concrete ballast
- Includes choice of standard symbols and messages
- Easy reconditioning of weather-worn buoys with excellent adhesion of restoration materials, see page 21

AVAILABLE OPTIONS

- Pickup eye built into top
- Stainless steel anchoring eye for salt water applications
- Agency or name identification
- Special non-standard messages
- Solar lights, see page 14
- Cone cap top
- Side mooring eyes for swim areas or float lines
- Available in yellow

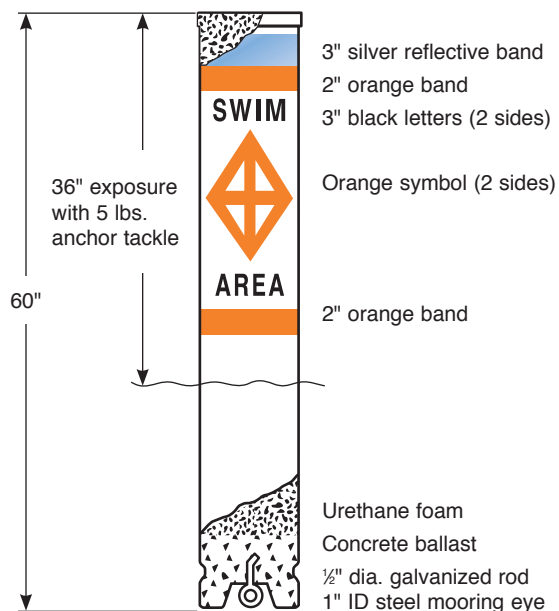
Specify desired symbols and messages when ordering, see page 22

Submerged buoyancy84 lbs.
Net weight49 lbs.
Shipping weight56 lbs.

Refer to installation suggestions on page 24
See warranty information on inside front cover

Regulatory Buoys • ABS Type • 9" Diameter With Vinyl Wrapper

Approved and universally used by local, state and federal agencies to ensure water safety | Special non-standard messages with little impact to lead time



MODEL B1147WR

FEATURES

- White vinyl wrapper with digital graphics
- 9" diameter, white, ABS plastic exterior
- Will not rust, chip or peel
- Ultraviolet inhibited
- Completely urethane foam filled
- Virtually unsinkable
- 3" wide reflective band at top for excellent nighttime visibility
- Self-righting without tackle
- Recessed cap allows buoy to stand upright
- Heavy galvanized steel anchoring eye cast in an internal concrete ballast
- Includes choice of standard symbols and messages
- Replacement wrappers available, see page 21

Specify symbols and messages when ordering, see page 22

Submerged buoyancy84 lbs.
Net weight49 lbs.
Shipping weight56 lbs.

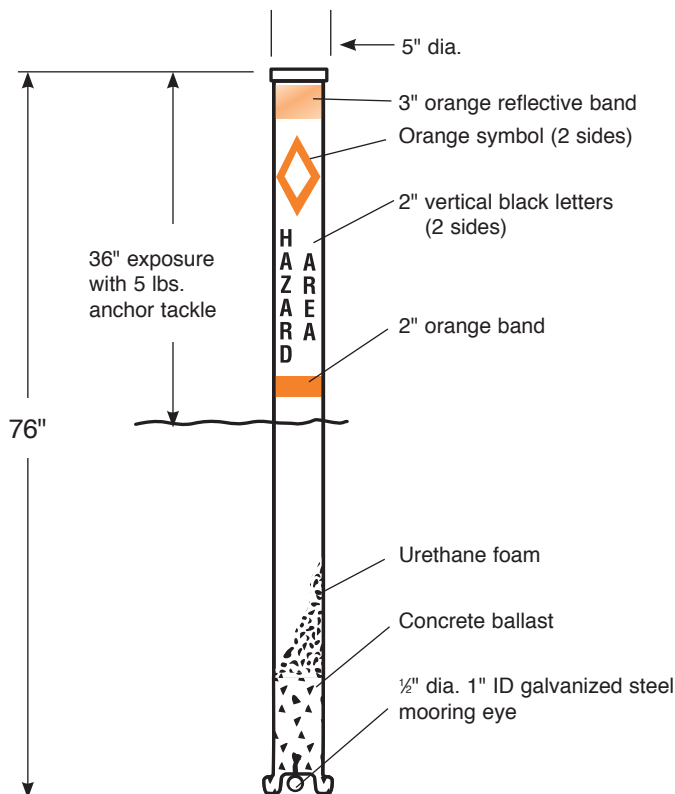
*Refer to installation suggestions on page 24
See warranty information on inside front cover*

AVAILABLE OPTIONS

- Pickup eye built into top
- Stainless steel anchoring eye for salt water applications
- Agency or name identification
- Special non-standard messages
- Solar lights, see page 14
- Cone cap top
- Side mooring eye for swim areas or float lines

Spar Buoys • ABS Type • 5" Diameter

Lightweight, easy to handle—minimum anchor weight allows easy removal



Specify desired symbols and messages when ordering, see page 22

Submerged buoyancy30 lbs.
Net weight24 lbs.
Shipping weight28 lbs.

MODEL B576S

FEATURES

- 5" diameter white, tough ABS plastic exterior
- Ultraviolet inhibited
- Will not rust, chip or peel
- Urethane foam filled
- Virtually unsinkable
- 3" wide reflective band at top provides excellent night visibility
- Self-righting without tackle
- Recessed cap allows buoy to stand upright
- Heavy steel galvanized anchoring eye cast in an internal concrete ballast
- Standard symbols and messages included in price
- Easy reconditioning of weather-worn buoys with excellent adhesion of restoration materials, see page 21

AVAILABLE OPTIONS

- Stainless steel anchoring eye for salt water applications
- Special non-standard messages
- Agency or name identification
- Yellow buoy

Hanging Can Buoy • ABS Type • 12" Diameter



MODEL B1226

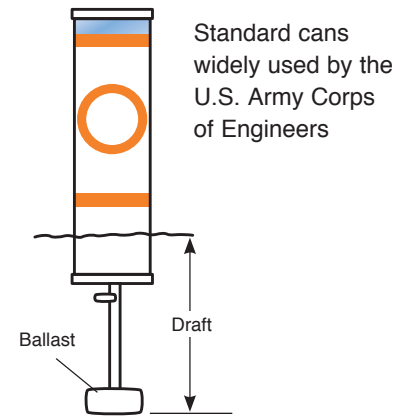
FEATURES

- 12" diameter white ABS plastic exterior
- DURABLE—will not rust, chip or peel
- UNSINKABLE—completely urethane foam filled
- 2" orange reflective band at top provides excellent nighttime visibility
- 3/8" galvanized attachment eyebolt
- Choice of inland waterway marking symbols and standard messages (2 sets)
- Excellent adhesion of lettering and paint
- Cable and attaching hardware available, see page 20

Net weight12 lbs.
Shipping weight18 lbs.

Can Buoys • General Purpose

Model		B1251	B1352	B1452	B2445	B2460UL
Can Dia. & Ht.	In.	12x51	13x52	14x52	24x45	24x60
Overall Ht.	In.	73.5	76	86	97	116
Exposure w/o Tackle	In.	38	40	40	38	—
Mooring Tackle Allowable for 36" Exposure	Lbs.	7	18	22	18	—
Draft	In.	36	35	44	57	59
Submerged Buoyancy	Lbs.	155	190	220	624	780
Net Wt.	Lbs.	71	79	90	138	240
Shipping Wt.	Lbs.	80	86	96	148	330



FEATURES

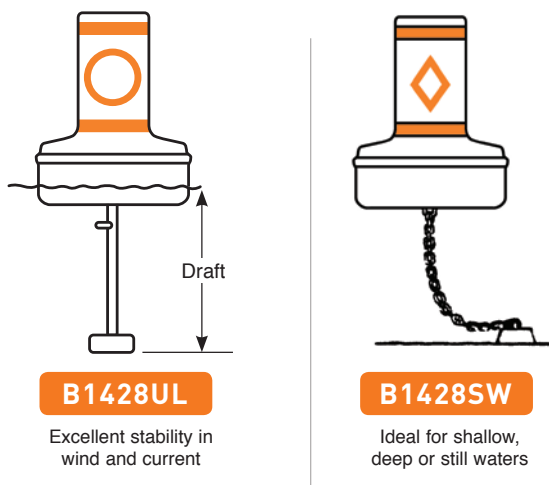
- ABS exterior, completely urethane foam filled and ultraviolet inhibited
- Self-righting without tackle
- Standard bands, symbols and messages included, see page 22 for information
- Ballast attached by a galvanized steel pipe
- 3" silver reflective band at top
- Concrete ballast encased in ABS
- Easy reconditioning of weather-worn buoys with excellent adhesion of restoration materials, see page 21

AVAILABLE OPTIONS

- Solar lights, see page 14
- Pickup eye built into top (except B1428FW)
- Non-standard messages
- Agency and name identification
- Yellow cans, centerline black and white or red and white
- All cans available as green channel markers, see page 11
- Red channel markers with nun tops, see page 9

FLOAT COLLAR CANS • ABS TYPE

For heavy-duty applications

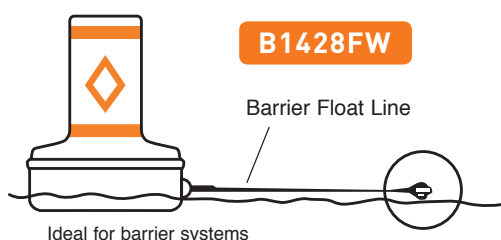


B1428UL

Excellent stability in wind and current

B1428SW

Ideal for shallow, deep or still waters



B1428FW

Ideal for barrier systems

FEATURES

- Galvanized hardware
- Heavy-duty applications
- 3" orange reflective band at top (float collar buoys)

B1428SW & B1428FW

- Stainless steel hardware available

Model		B1428SW	B1428FW	B1428UL
Can Dia. & Ht.	In.	14x30	14x30	14x30
Float Collar Dia. & Ht.	In.	28x12	28x12	28x12
Overall Ht.	In.	49	49	89
Mooring Tackle Allowable for 36" Exposure	Lbs.	29	40	29
Draft	In.	under 9	under 6	51
Submerged Buoyancy	Lbs.	320	340	350
Net Wt.	Lbs.	105	93	120
Shipping Wt.	Lbs.	135	135	145

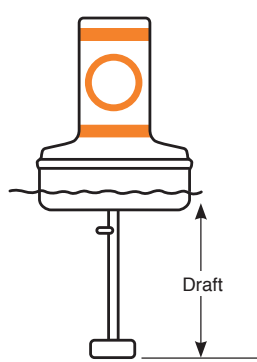
B1428SW: Internal ballast – bottom attachment

B1428FW: Internal ballast – side attachment

B1428UL: Heavy duty – external ballast

Can Buoys • General Purpose

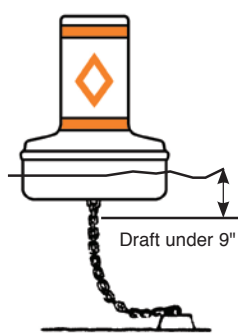
FLOAT COLLAR • ABS TYPE



B5CPRM

B6CPRM

Excellent stability in
wind and current



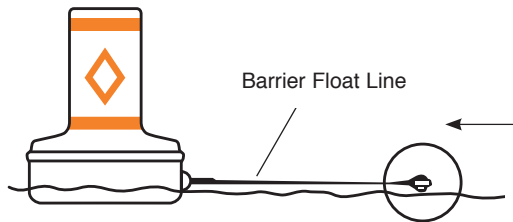
B5CPRSW

Ideal for shallow,
deep or still waters

FEATURES

- Heavy-duty applications
- Orange reflective band at top
2" for Model B6CPRM
3" for Model B5CPRM
- Galvanized hardware

Model		B6CPRM ½ Mile Buoy	B5CPRM 1 Mile Buoy	B5CPRFW B5CPRSW
Can Dia. & Ht.	In.	12x21	19x33	19x33
Collar Dia. & Ht.	In.	28x12	38x13	38x13
Overall Ht.	In.	56.3	84.5	50
Buoyancy/In. Submerged	Lbs.	22.2	41	39
Draft	In.	24	39	9
Submerged Buoyancy	Lbs.	287	815	700
Net Wt.	Lbs.	83	124	164
Shipping Wt.	Lbs.	90	140	209



B5CPRFW

Ideal for barrier systems

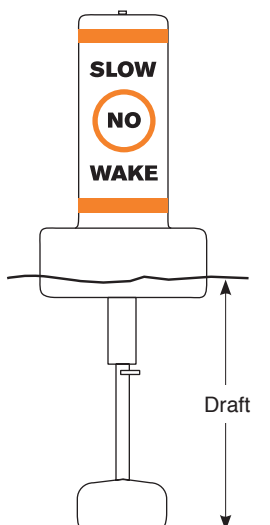
B5CPRSW: Internal ballast – bottom attachment

B5CPRFW: Internal ballast – side attachment

B6CPRM: Heavy duty – external ballast

B5CPRM: (1 mile buoy)

SUPER-TOUGH CAN BUOYS



B2413UL

FEATURES

- Super-tough white LLDPE shell
- Ultraviolet inhibited
- Completely urethane foam filled
- Virtually unsinkable
- Self-righting without tackle
- Replaceable white vinyl wrapper
- Standard bands, symbols, messages included
- 1½" Sch 40 galvanized pipe through buoy
- 10" diameter galvanized steel plate at top (can)

AVAILABLE OPTIONS

- Solar lights, see page 14

Model		B2413UL
Can Dia. & Ht.	In.	13x30
Collar Dia. & Ht.	In.	24x10
Overall Ht.	In.	75
Exposure w/o Tackle	In.	36
Submerged Buoyancy	Lbs.	240
Net Wt.	Lbs.	116
Shipping Wt.	Lbs.	125

Channel Markers

For marking borders and centerlines of channels

9" DIAMETER • ABS TYPE NUN AND CAN TYPES

Model B1148R Red with 3" red reflective band

Model B1148G Green with 3" green reflective band

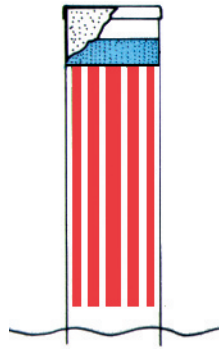
Model-B1149R Red & White Stripe

Model-B1149B Black & White Stripe

Submerged buoyancy84 lbs.

Net weight49 lbs.

Shipping weight56 lbs.



FEATURES

- ABS plastic exterior
- Ultraviolet inhibited, will not rust, chip or peel
- Completely urethane foam filled
- Easy reconditioning of weather-worn buoys, with excellent adhesion of restoration materials

AVAILABLE OPTIONS

- Stainless steel mooring eyes
- Agency or name identification
- White numerical markings
- Solar lights, see page 14

POLYETHYLENE SUPER-TOUGH CHANNEL MARKERS

Designed for problem areas where buoys
are subject to abuse and vandalism

AVAILABLE OPTIONS

- Stainless steel mooring eyes
- Agency or name identification
- White numerical markings
- Solar lights, see page 14

Model B961RC Red Nun

Model B961GC Green Can

Model B961CB Centerline Black

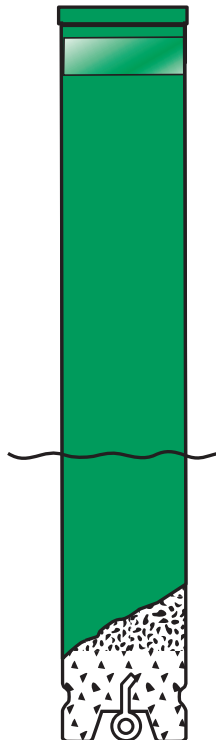
Model B961CR Centerline Red

Submerged buoyancy 84 lbs.

Net weight 49 lbs.

Shipping weight 56 lbs.

- Same HDPE construction as 9" Ultra Heavy Duty Regulatory Buoys, Model 961R, see page 2
- 60" high with 3" reflective band at top



5" DIAMETER CHANNEL MARKERS • ABS TYPE



B576SR

RED



B576SG

GREEN

Model B576SR Red

Model B576SG Green

Model B576SC Centerline (Red and White)

Model B576SCB Centerline (Black and White)

Submerged buoyancy 30 lbs.

Net weight 24 lbs.

Shipping weight 28 lbs.

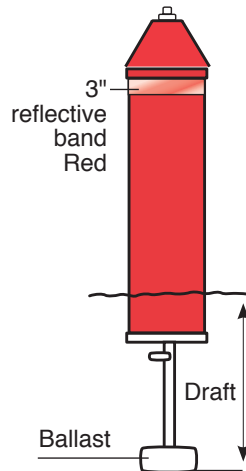
- Same ABS construction and features as 5" Spar Buoys, Model B576S, see page 5
- 76" high with 3" reflective band at top

Large Red Channel Markers

For marking right side of channel when facing upstream or right side of harbor when entering | Widely used by local, state and federal agencies

STANDARD NUNS • ABS TYPE

Concrete ballast encased in ABS and attached to buoy by a galvanized steel pipe



FEATURES

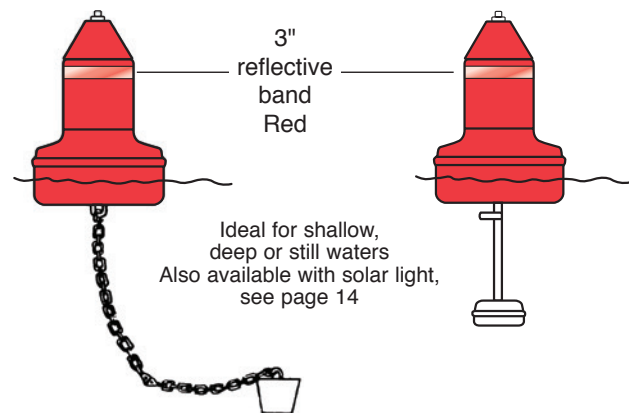
- Solid red with 3" reflective band
- ABS exterior, completely urethane foam filled
- Self-righting & excellent stability without mooring
- Galvanized hardware
- Easy reconditioning of weather-worn buoys with excellent adhesion of restoration materials, see page 21

AVAILABLE OPTIONS: ALL NUNS

- Pickup eye built into top
- Agency and name identification
- White numerical markings
- Solar lights, see page 14

Model		B1352N	B1452N	B2445N	B2460ULN
Nun Base Dia.	In.	13	14	24	24
Overall Ht.	In.	76	86	97	116
Exposure w/o Tackle	In.	40	40	39	—
Mooring Tackle Allowable for 36" Exposure	Lbs.	18	22	42	—
Draft	In.	35	44	57	—
Submerged Buoyancy	Lbs.	160	178	470	78
Net Wt.	Lbs.	79	87	134	240
Shipping Wt.	Lbs.	86	96	145	330

FLOAT COLLAR NUNS • ABS TYPE



Model		B1428NSW	B1428ULN
Nun Base Dia.	In.	14	14
Float Collar Dia. & Ht.	In.	28x12	28x12
Overall Ht.	In.	49	89
Mooring Tackle Allowable for 36" Exposure	Lbs.	36	29
Draft	In.	Under 9	51
Submerged Buoyancy	Lbs.	295	325
Net Wt.	Lbs.	92	120
Shipping Wt.	Lbs.	135	145

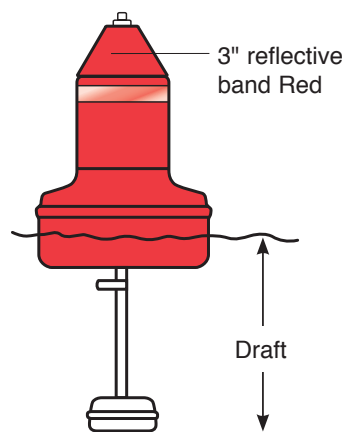
B1428NSW: Internal ballast – bottom attachment, optional SS hardware

B1428ULN: Heavy duty external ballast – concrete encased in ABS
Excellent stability in wind and current

B1428NSW

B1428ULN

FLOAT COLLAR NUNS



For general mooring suggestions, see page 23
For hardware, see page 20

Model		B6NPRM 1/2 Mile Buoy	B5NPRM 1 Mile Buoy	B5NPRFW B5NPRSW
Nun Base Dia.	In.	14	22	22
Float Collar Dia. & Ht.	In.	28x12	38x13	38x13
Overall Ht.	In.	58	86	50
Buoyancy/In. Submerged	Lbs.	22.2	41	39
Draft	In.	24	39	9
Submerged Buoyancy	Lbs.	295	765	700
Net Wt.	Lbs.	80	117	164
Shipping Wt.	Lbs.	90	130	209

B5NPRFW

Internal ballast – side attachment

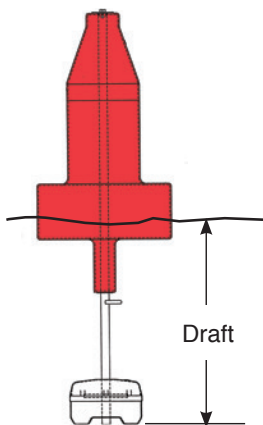
B5NPRSW

Internal ballast – bottom attachment

B5NPRSW: Optional SS hardware

RED NUN X-TRA HEAVY DUTY

B2413ULN FLOAT COLLAR



FEATURES

- Super-tough red LLDPE shell
- Ultraviolet inhibited
- Completely urethane foam filled
- Virtually unsinkable
- Self-righting without tackle
- 1½" Sch 40 galvanized pipe through buoy
- 3¾" diameter galvanized washer at top

AVAILABLE OPTIONS

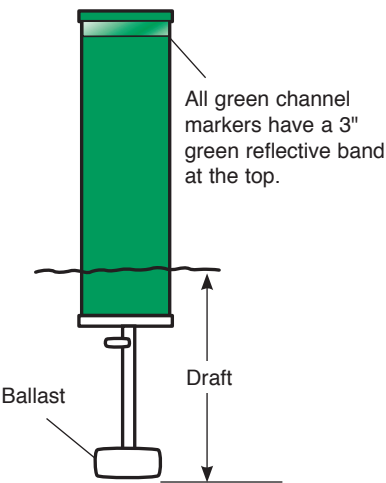
- Solar lights, see page 14
- Pick-up eye

Model		B2413ULN
Can Dia. & Ht.	In.	13 x 30
Collar Dia. & Ht.	In.	24 x 10
Overall Ht.	In.	75
Exposure w/o Tackle	In.	36
Submerged Buoyancy	Lbs.	240
Net Wt.	Lbs.	116
Shipping Wt.	Lbs.	—

Large Green Channel Markers

Widely used by the U.S. Army Corps of Engineers | Concrete ballast encased in ABS | Ballast attached by a galvanized steel pipe

STANDARD CANS • ABS TYPE



FEATURES

- Galvanized hardware
- Solid green with 3" reflective band
- ABS exterior, completely urethane foam filled
- Self-righting and excellent stability without mooring
- Easy reconditioning of weather-worn buoys with excellent adhesion of restoration materials, see page 21

AVAILABLE OPTIONS All cans

- Pickup eye built into top
- Agency and name identification
- White numerical markings
- Solar lights, see page 14

Model		B1251G	B1352G	B1452G	B2445G	B2460ULG
Can Dia. & Ht.	In.	12x51	13x52	14x52	24x45	24x60
Overall Ht.	In.	73.5	76	86	97	116
Exposure w/o Tackle	In.	38	40	40	38	—
Mooring Tackle Allowable for 36" Exposure	Lbs.	7	18	22	18	—
Draft	In.	36	35	44	57	59
Submerged Buoyancy	Lbs.	155	190	220	624	780
Net Wt.	Lbs.	71	79	90	138	240
Shipping Wt.	Lbs.	80	86	96	148	330

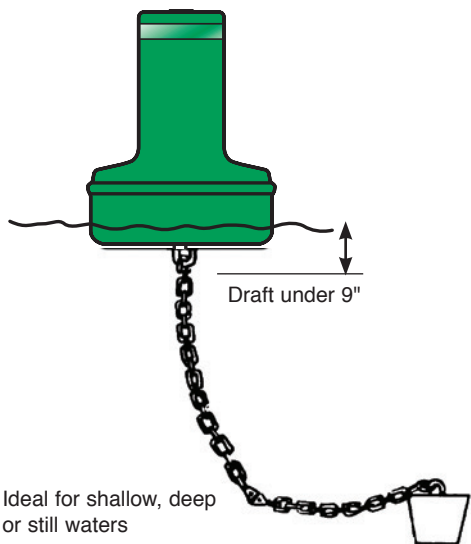
For mooring suggestions, see page 23 | For hardware, see page 20

B1428SWG

Internal ballast / bottom mooring eye

B1428FWG

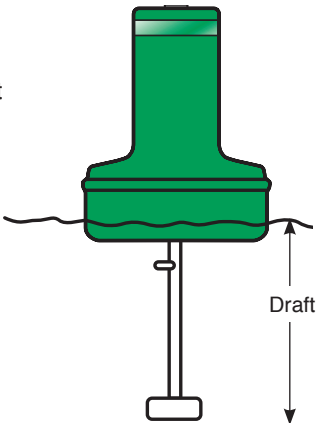
Internal ballast / side mooring eye



Model		B1428SWG	B1428FWG	B1428ULG
Can Dia. & Ht.	In.	14x30	14x30	14x30
Float Collar Dia. & Ht.	In.	28x12	28x12	28x12
Overall Ht.	In.	49	49	89
Mooring Tackle Allowable for 36" Exposure	Lbs.	29	40	29
Draft	In.	under 9	under 6	51
Submerged Buoyancy	Lbs.	320	340	350
Net Wt.	Lbs.	105	93	120
Shipping Wt.	Lbs.	135	135	145

B1428ULG

Excellent stability in wind and current



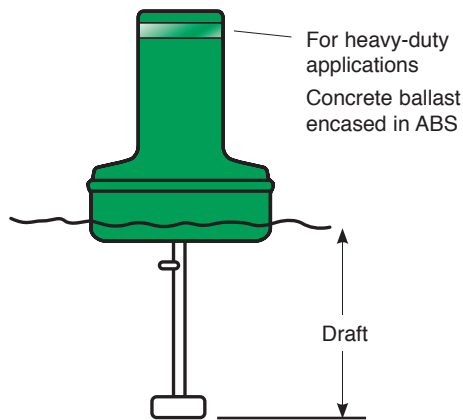
Model B1428SWGSS same as B1428SWG except buoy has stainless steel hardware

Large Green Channel Markers

COAST GUARD TYPE

B6CPRMG

With external ballast



Model		B6CPRMG ½ Mile Buoy	B5CPRMG 1 Mile Buoy	B5CPRFWG B5CPRSWG
Can Dia. & Ht.	In.	12x21	19x33	19x33
Collar Dia. & Ht.	In.	28x12	38x13	38x13
Overall Ht.	In.	56.3	84.5	50
Buoyancy/In. Submerged	Lbs.	22.2	41	39
Draft	In.	24	39	9
Submerged Buoyancy	Lbs.	287	815	700
Net Wt.	Lbs.	83	124	164
Shipping Wt.	Lbs.	90	140	209

B5CPRSWG: Internal ballast – bottom attachment

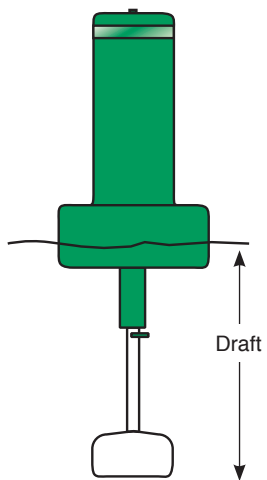
B5CPRFWG: Internal ballast – side attachment

B6CPRMG: External Ballast

B5CPRMG: External Ballast

X-TRA HEAVY DUTY

B2413ULG



FEATURES

- Super-tough green LLDPE shell
- Ultraviolet inhibited
- Completely urethane foam filled
- Virtually unsinkable
- Self-righting without tackle
- 10" galvanized steel washer at top
- 1½" Sch 40 galvanized pipe through buoy

AVAILABLE OPTIONS

- Solar lights, see page 14
- Pickup eye

Model		B2413ULG
Can Dia. & Ht.	In.	13x30
Collar Dia. & Ht.	In.	24x10
Overall Ht.	In.	75
Exposure w/o Tackle	In.	36
Submerged Buoyancy	Lbs.	240
Net Wt.	Lbs.	116
Shipping Wt.	Lbs.	125

9" MARKER BUOY

Do not pass between buoy & shore

FEATURES

- ABS plastic exterior
- Ultraviolet inhibited, will not rust, chip or peel
- Completely urethane foam filled
- Easy reconditioning of weather-worn buoys, with excellent adhesion of restoration materials, see page 21

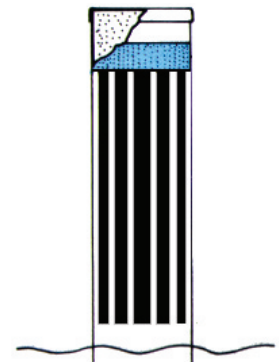
AVAILABLE OPTIONS

- Stainless steel mooring eyes
 - Agency or name identification
 - White numerical markings
 - Solar lights, see page 14
- Submerged buoyancy84 lbs.
Net weight49 lbs.
Shipping weight56 lbs.

Model B961RSM: HDPE–Shore Marker Buoy Super Tough

B1149SM SHORE MARKER

With black & white vertical stripes



Markers

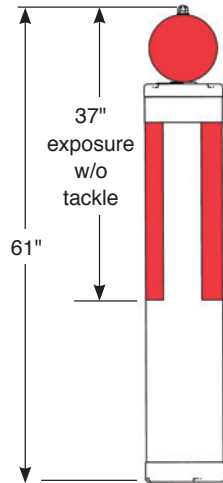
SAFE WATER MARKERS

B1149SW

FEATURES

- 9" diameter white ABS exterior
- Completely urethane foam filled
- Self-righting without tackle
- Red polyethylene sphere at top
- Vertical red and white stripes

37" exposure without tackle
Net weight 53 lbs.

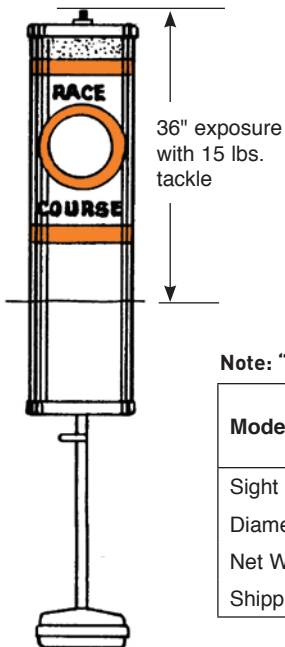


RACE COURSE MARKERS

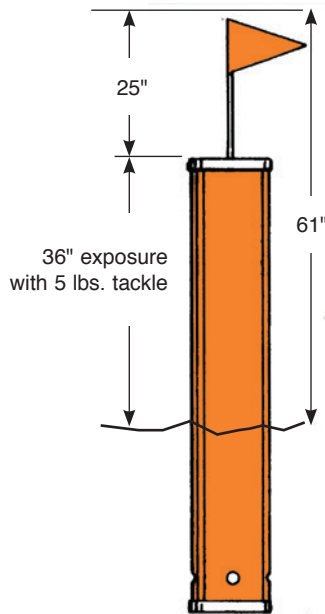
FEATURES

- ABS plastic exterior
- Urethane foam filled
- Ballasted for self-righting without tackle
- Excellent visibility

B1166W



B115290



Note: "W" specifies white "O" orange

Model	B115290 B11529W	B11660 B1166W
Sight Range	1/2-1 mile	1-2 miles
Diameter	9"	14"
Net Weight	49 lbs.	90 lbs.
Shipping Wt.	56 lbs.	96 lbs.

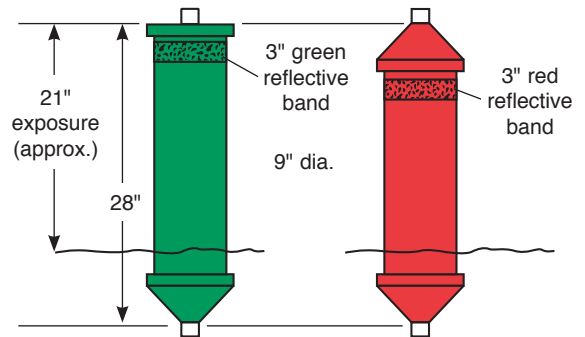
TIDAL BUOY CHANNEL MARKERS

FEATURES

- Easily installed on length of standard Sch 40 galvanized 1" diameter steel pipe
- Moves up and down with tide
- Seamless ABS plastic exterior
- Completely urethane foam filled
- Durable—unsinkable
- 1½" ID PVC pipe through center

B929TGC

B929TRN



B929TGC Green Can

B929TRN Red Nun

Shipping weight 8 lbs.

TIDAL BUOY REGULATORY MARKER

B948TB

FEATURES

- 9" diameter x 48"
- Orange reflective symbols two sides
- 3" orange reflective band top & bottom
- Black letters two sides
- 1½" Sch 80 PVC pipe through
- Urethane foam filled



Solar Lights

Provide safe boater navigation at night | Lights change in the sunlight and automatically switch on at dusk

STANDARD FEATURES

- Light source: LEDs
- Colors: amber, clear, green & red
- Estimated battery life: 3-5 years
- Standard flash rates: 15, 30, 60 FPM (flashes per minute)
- Easy installation: just bolt down
- Sun switch detects daylight & turns off
- Low/no maintenance

B381 ONE MILE

B382 TWO MILE

FEATURES

- Stainless steel/polycarbonate construction
- Factory programmable
- Batteries can be replaced

ONE MILE PART NO.

B381A

B381C

B381G

B381R

TWO MILE PART NO.

B382A

B382C

B382G

B382R

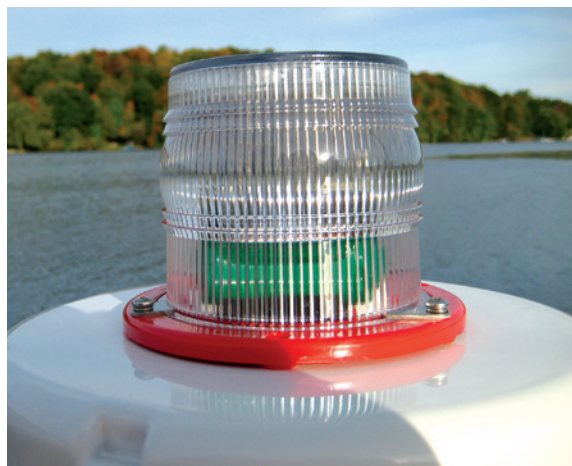
COLOR

Amber

Clear

Green

Red



B345 SERIES

FEATURES

- High performance
- Rugged construction and reliability
- Factory programmable
- Batteries can be replaced

PART NO.

B345A

B345C

B345G

B345R

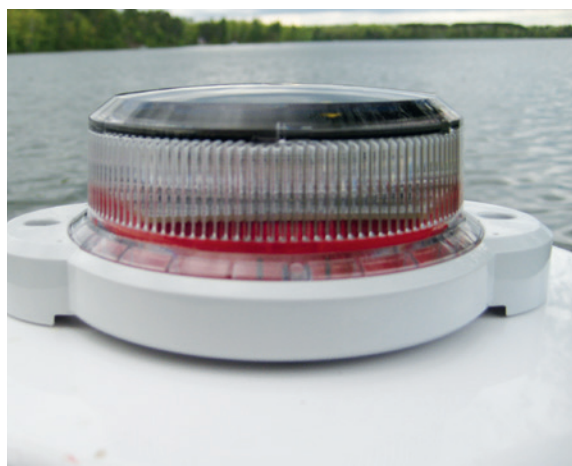
COLOR

Amber

Clear

Green

Red



ACCESSORIES

B345SLA—Adapter for B345 Series

B341SLA—Adapter for B381 Series

B340SLA—Adapter for B382 Series

B21911—1" TP Screws

B21912—1½" TP Screws

B1762WN—Rubber Insert

B197293SS—SS Washer

B21910S—TP Screwdriver

B381BATP—B381 Battery Pack

B382BAT—B382 Battery Pack

Barrier Floats • Durable Polyethylene

Super-tough polyethylene hull | Barrier floats are attached in series to restrict boating traffic or swimmers from specific danger areas such as around dams, spillways and swim areas

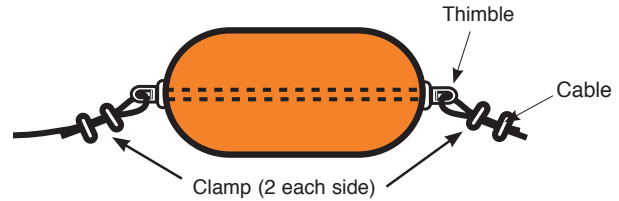
FEATURES

- Shatter-proof—will not crack, chip, peel or rust
- Unsinkable—completely urethane foam filled
- One-piece construction

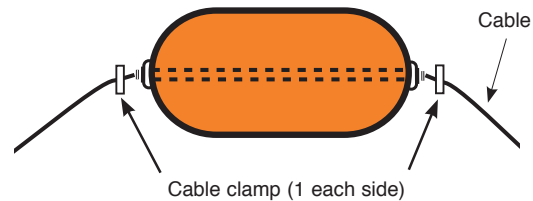
AVAILABLE OPTIONS

- Available in solid international orange or all white as noted
- Reflective bands and/or symbols available on Models B1830, B2436, and B1130
- Yellow available on special order
- Type B floats available with larger ID pipe through center

TYPE A: Steel rod through float
Swivel eye nuts both ends



TYPE B: Steel or plastic pipe through float

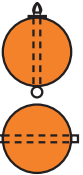







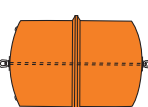


Note: "W" specifies white "O" orange

Model Number	Barrier Float Styles	Diameter and Length	Type	Description—Standard colors are international orange and white, plain solid color (specify when ordering)	Submerged Buoyancy	Net Wt.
B1130AW B1130AO		12" x 13"	A	• 7/16" dia. galvanized steel rod with 3" dia. attachment hoop one side only	33 lbs.	4 lbs.
B1130BW B1130BO			B	• 1/2" Sch 40 PVC pipe through float		
B618AO		6" x 18"	A	• 1/2" Sch 40 PVC pipe through	—	3 lbs.
B1318AW B1318AO		13" Dia.	A	• 1/2" dia. steel rod through float • Galvanized eye nut swivels on both ends	55 lbs.	10 lbs.
B1318BW B1318BO		18" Length	B	• 1/2" Sch 40 PVC pipe through float • Anchored to prevent movement		
Orange Only B1400AO		14" Sphere	A	• 7/16" dia. galvanized steel rod with 3" dia. attachment hoop one side only	50 lbs.	6 lbs.
B1400BO			B	• 1/2" Sch 40 PVC pipe through float		
Orange Only B1600AO		16" Sphere	A	• 1/2" dia. steel rod through float • Galvanized eye nut swivels on both ends	70 lbs.	8 lbs.
B1600BO			B	• 1/2" Sch 40 PVC pipe through float		
B1800AW B1800AO		18" Sphere	A	• 1/2" dia. steel rod through float • Galvanized eye nut swivels on both ends	—	14 lbs.
B1800BW B1800BO			B	• 1/2" Sch 40 PVC pipe through float		

Barrier Floats • Durable Polyethylene


Note: "W" specifies white "O" orange

Model Number	Barrier Float Styles	Diameter and Length	Type	Description—Standard colors are international orange and white, plain solid color (specify when ordering)	Submerged Buoyancy	Net Wt.
Orange Only B2400AO B2400BO		24" Dia.	A	<ul style="list-style-type: none"> • 1/2" dia. galvanized steel rod through float with steel reinforcing washers on both ends • Large 3" dia. hoop • Completely foam filled 	240 lbs.	20 lbs.
			B	<ul style="list-style-type: none"> • 1" dia. galvanized steel pipe through float • Anchored to prevent movement 		
B1830AW B1830AO		18" Dia.	A	<ul style="list-style-type: none"> • 5/8" dia. steel rod through float • Galvanized swivel eye nuts on both ends 		25 lbs.
B1830BW B1830BO		30" Length	B	<ul style="list-style-type: none"> • 1" Sch 40 galvanized steel pipe through float 	200 lbs.	25 lbs.
B1830CW B1830CO			C	<ul style="list-style-type: none"> • 5/8" dia. steel rods through float and also across dia. in center • Eye nut swivels on both ends of float • Top eye for buoy pick-up only • Not for mooring 		25 lbs.
B2436AW B2436AO		24" Dia.	A	<ul style="list-style-type: none"> • 3/4" dia. steel rod through float • Galvanized eye nut swivels on both ends 		55 lbs.
B2436BW B2436BO		36" Length	B	<ul style="list-style-type: none"> • 1" Sch 40 galvanized steel pipe through float 	385 lbs.	55 lbs.
B2436CW B2436CO			C	<ul style="list-style-type: none"> • 3/4" dia. steel rods through float and also across dia. at center • Eye nut swivels on both ends of float • Top eye for buoy pick-up only • Not for mooring 		58 lbs.
Orange Only B3452AO		34" x 52"	A	<ul style="list-style-type: none"> • 3/4" dia. steel rod through float • Galvanized swivel eyes both ends 	385 lbs.	116 lbs.
B3452BO		34" x 52"	B	<ul style="list-style-type: none"> • 1" Sch 40 galvanized steel pipe through float 		

Rope Floats

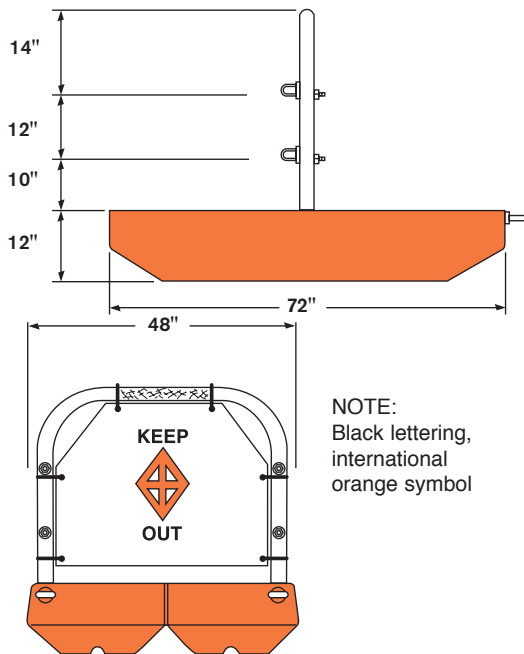
FEATURES

- Self lock
- Ideal for swim area

Model Number	Lock-on Float Styles	Diameter and Length	Description	Net Wt.
B035LO		3" x 5"	<ul style="list-style-type: none"> • 1/2" dia. hole, orange/white/orange polyethylene shell • Ultraviolet inhibited 	.12 lbs.
B059LO		5" x 9"	<ul style="list-style-type: none"> • Lock on rope without fastener • Orange/white/orange 	.42 lbs.
B139R3 B139R6	Rope	1/2" x 300 1/2" x 600	<ul style="list-style-type: none"> • 1/2" orange and white twisted polypropylene rope, 300' reel or 600' reel 	15 lbs. 30 lbs.

Rolyan® Pontoon Float

Used as a safety barrier for dams and spillways



MODEL B4872PF

FEATURES

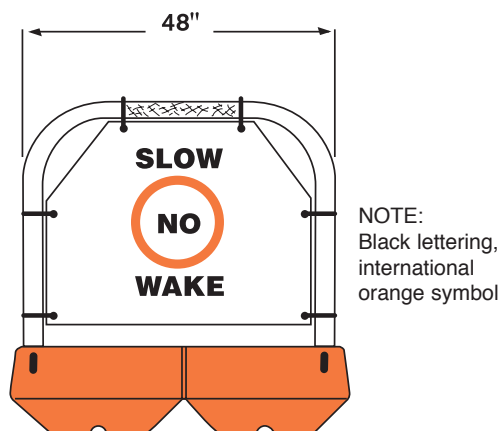
- Tough LLDPE exterior
- High-visibility orange pontoon
- Completely urethane foam filled
- Displays white nylon sign
- Sign mount structure hot dipped galvanized 1" Sch 40 pipe
- Minimum assembly required
- Built-in handles
- 18" long orange reflective tape on top horizontal pipe
- 1" Sch 40 pipe mounting structure folds down for easy storage and shipping
- Weight: 200 lbs

AVAILABLE OPTIONS

- One- or two-mile solar lights, see page 14
- White reflective aluminum sign with orange symbols & black message
- B4872PFS white vinyl replacement sign with orange symbol & message

Floating Sign

Displays visible nylon sign both sides for regulating boat traffic



NOTE: Requires 4 ea. corner mooring anchors

MODEL B4872FS

FEATURES

- Tough LLDPE exterior
- High-visibility orange pontoon
- Completely urethane foam filled
- Displays white nylon sign
- Sign mount structure hot dipped galvanized 1" Sch 40 pipe
- Minimum assembly required
- Built-in handles
- Four ea. corner mooring eyes
- 18" long orange reflective tape on top horizontal pipe (2 sides)
- 1" Sch 40 pipe mounting structure folds down for easy storage and shipping
- Weight: 200 lbs.

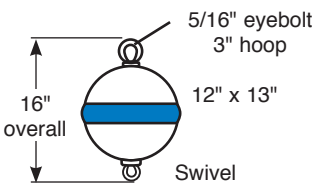
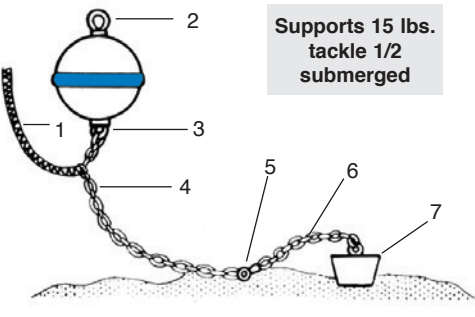
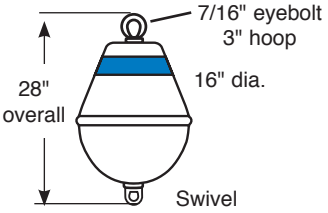
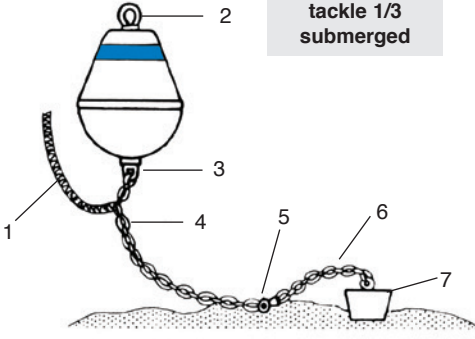
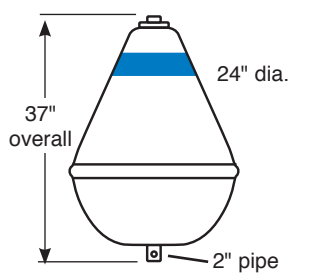
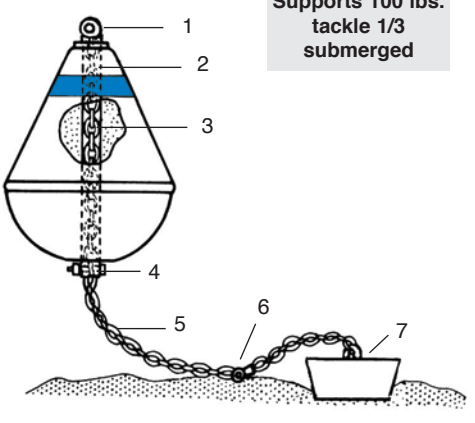
AVAILABLE OPTIONS

- One- or two-mile solar lights, see page 14
- White reflective aluminum sign with orange symbols & black message
- B4872PFS white vinyl replacement sign with orange symbol & message

Mooring Buoys

FEATURES

- Tough plastic exterior will not rust, chip or peel
- Ultraviolet inhibited
- Completely urethane foam filled

	SUGGESTIONS	CHAIN
<p>B1140 LIGHT DUTY</p>  <p>Submerged buoyancy 30 lbs. Net weight 3 lbs. Shipping weight 4 lbs. Recessed 1" blue band White HDPE shell</p>	 <p>Supports 15 lbs. tackle 1/2 submerged</p> <ol style="list-style-type: none"> 1. Pennant attached to boat 2. Large attachment hoop for pennant while boat is away from mooring 3. Swivel attachment eye 4. Proof coil chain (see listing at right) 5. Heavy-duty swivel 6. Heavy-duty drag chain 1/2" or more 7. Anchor <p>NOTE—Do not attach boat to top of buoy</p>	<p>1/4" proof coil up to 20'</p> <p>Larger chain not recommended</p>
<p>B1145 MEDIUM DUTY</p>  <p>Submerged buoyancy 80 lbs. Net weight 9 lbs. Shipping weight 13 lbs. 3" blue band White ABS shell</p>	 <p>Supports 24 lbs. tackle 1/3 submerged</p> <ol style="list-style-type: none"> 1. Pennant attached to boat 2. Large attachment hoop for pennant while boat is away from mooring 3. Swivel attachment eye 4. Pennant attached to proof coil chain (see listing at right) 5. Heavy-duty swivel 6. Heavy-duty drag chain 1/2" or more 7. Anchor <p>NOTE—Do not attach boat to top of buoy</p>	<p>1/4" proof coil up to 30'</p> <p>3/8" up to 14'</p> <p>1/2" up to only 8'</p>
<p>B1146MB HEAVY DUTY</p>  <p>Submerged buoyancy 225 lbs. Net weight 28 lbs. Shipping weight 36 lbs. Recessed 4" blue reflective band</p>	 <p>Supports 100 lbs. tackle 1/3 submerged</p> <ol style="list-style-type: none"> 1. Anchor shackle, ring or clevis attached to chain for boat pennant 2. 2" dia. steel pipe through buoy allowing a 1/2" chain to run straight through for direct pennant attachment to chain 3. 1/2" bolt through chain and steel pipe 4. Proof coil chain (see listing at right) 5. Heavy-duty swivel 6. Heavy-duty drag chain 5/8" or more 7. Anchor 	<p>Smaller than 3/8" not recommended</p> <p>3/8" up to 60'</p> <p>1/2" up to 30'</p>

Proof coil chain is recommended for mooring of boats. The weight and water resistance of chain provides a "soft" pull on moored boats. It is important to inspect annually the mooring tackle for wear and abrasion.

Note: The design and selection of a mooring system should be determined by a qualified professional engineer who is familiar with the specific application and local conditions. The illustrations shown on this page are provided for general informational purposes only, and are not intended to be suggested designs. The company assumes no responsibility for any mooring system based upon these illustrations.

Mooring Buoy • HDPE Type

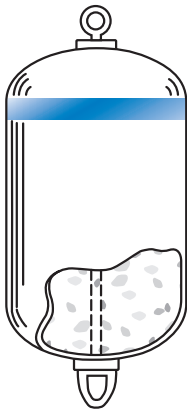
Polyethylene mooring buoy—X-tra heavy duty

MODEL B1830MB

FEATURES

- White polyethylene shell
- 3/4" diameter HDG eyebolt
- Bottom swivel eye
- 2½" top eye attachment
- 3" Blue reflective band
- Completely urethane foam filled
- Size 18" x 30"

Submerged Buoyancy ... 100 lbs.
 Net Weight.....28 lbs.
 Ship Weight.....32 lbs.

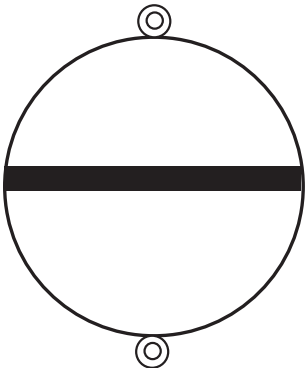
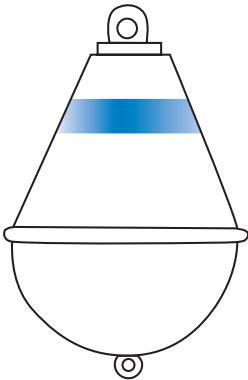


MODEL B1146SE

FEATURES

- White polyethylene shell
- 3/4" diameter HDG eyebolt through
- Bottom swivel eye
- 3" ID top eye
- 4" Blue recessed reflective band
- Completely urethane foam filled

Submerged Buoyancy 100 lbs.
 Net Weight..... 28 lbs.
 Ship Weight 36 lbs.



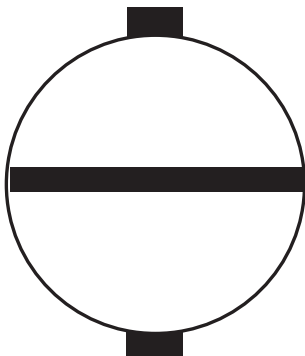
MODEL B1800MB

FEATURES

- 5/16" Eyebolt with 3" hoop
- 1" Blue band
- Swivel at bottom
- 18" diameter
- White LLDPE shell

NOTE: Do not attach boat to top of buoy

Submerged Buoyancy ... 100 lbs.
 Net Weight.....13 lbs.



MODEL B2400MB

FEATURES

- 2" Sch 40 galvanized pipe through
- 2" Blue reflective band
- White polyethylene shell
- 24" diameter
- Completely urethane foam filled

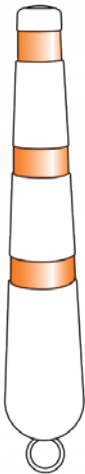
Submerged Buoyancy ...240 lbs.
 Net Weight.....32 lbs.

Rolyan® Ice Spar

Durable spar-type float ideal for winter use

FEATURES


- White HDPE shell
- Ultraviolet inhibited
- Completely urethane foam filled
- 7/16" diameter eye (3" ID)
- 2" Orange reflective bands (3 ea.)
- Tapered design resists freeze-in



Model	B631IS	B631ISB
Overall Height	35"	35"
Diameter	5" tapered	5" tapered
Submerged Buoyancy	18 lbs.	11 lbs.
Net Weight	3 lbs.	10 lbs.
Shipping Weight	5 lbs.	12 lbs.


Chain • Cable • Hardware • Anchors

PERMAFLEX® CABLE

		Covering OD	Part No.	Cable Diameter	Construction	Weight Lb./Ft.	Breaking Strength Lbs.	Standard Reel Size	Reel Wt. Lbs.
	• Lightweight, yet high strength	1/4"	B1936	3/16"	7 x 7	.065	3700	500'	37
	• Safe to handle	5/16"	B1931	1/4"	7 x 7	.12	6100	500'	60
	• Tough, durable, bright yellow, waterproof plastic covering is highly resistant to alkalis & salt	15/32"	B1933	3/8"	7 x 19	.28	14400	500'	180


Permaflex Cable: Galvanized steel wire rope coated & Impregnated with yellow polypropylene plastic


CHAIN


		Size	Part No.	Weight Lb./Ft.	Working Load Limit Lbs.	Standard Drum Size
	Proof Coil Heavy Duty	1/4"	B1828	.42	1300	400'
	Steel Chain	3/8"	B1829	1.36	2650	400'
	Hot Dipped Galvanized	1/2"	B18210	2.3	4500	200'


NOTES: Chain may also be purchased by the foot | Subject to cut charge


GALVANIZED HARDWARE

CABLE THIMBLES		Size	Part No.	Weight Lb./Ft.
	Standard	1/4"	B2312	.04
	Electro	5/16"	B2313	.05
	Galvanized	1/2"	B2316	.15
	Heavy Duty	1/4"	B2324	.08
	Hot Dipped	5/16"	B2321	.11
	Galvanized	1/2"	B2323	.47

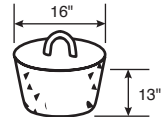
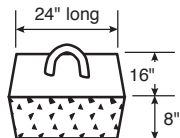
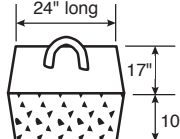
CABLE CLAMPS		Size	Part No.	Weight Lb./Ft.
	Standard	1/4"	B1832	.3
	Electro	5/16"	B1833	.4
	Galvanized	1/2"	B1835	.5
	Heavy Duty	1/4"	B2332	.16
	Hot Dipped	5/16"	B2333	.28
	Galvanized	1/2"	B2335	.82

QUICK LINKS		Size	Part No.	Weight Lb./Ft.
	Electro	1/4"	B1801	.10
	Galvanized	3/8"	B1803	.19
		1/2"	B1804	.38

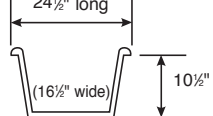
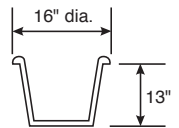

ANCHOR SHACKLES		Size	Part No.	Weight Lb./Ft.
	Hot Dipped	5/16"	B1900	.25
	Galvanized	3/8"	B1901	.30
		1/2"	B1902	.75

SWIVELS		Size	Part No.	Weight Lb./Ft.
	Hot Dipped	1/4"	B1921	.21
	Galvanized	3/8"	B1922	.61
		1/2"	B1923	.93

ANCHORS

CONCRETE	Avg. Wt. Lbs.	Underwater Wt. Lbs.
 B1842 1/2" Round Steel Eye Hot Dipped Galvanized	90	54
 B21620 1/2" Round Steel Eye Hot Dipped Galvanized	200	164
 B2152 1/2" Round Steel Eye Hot Dipped Galvanized	300	180

ANCHOR KITS





	B2161 Tough, high-density polyethylene anchor form, Cast up to 300 lb. concrete anchors
	B2163 Plastic anchor form for 90 lb. concrete anchors
	B2162 1/2" Steel anchor eye and steel wire mesh

Stainless steel hardware available. Call for pricing.

Restoration Materials and Kits

SYMBOLS

Orange, reflective, self-adhesive

2"	11"	11"	12" Dia.	11"
Band width				
	14"	14"		14"
Standard	B4991	B4992	B4993	B4994
Hi Intensity	B4991H	B4992H	B4993H	B4994H

REFLECTIVE TAPES

for bands, self-adhesive, sold in 50-yd. rolls—choice of colors

Size/Color	Standard Reflective		Hi-Intensity Reflective		
2" Orange (50 yds.)	B3195		B3195H		
3" Orange (50 yds.)	B3194		B3194H		
3" Red (50 yds.)	B3191		B3191H		
3" Green (50 yds)	B3192		B3192H		
3" Silver (50 yds.)	B3193		B3193H		
Buoy diameter	9"	12"	13"	14"	24"
Tape reqd. for one band	30"	40"	43"	46"	77"

LETTERING

Black self-adhesive (specify message)

B1465—2" Height

B1461—3" Height

CAPS for 9" diameter buoys

B3001—White cap for B1147WR and B1147R

B3001N—Red nun cap for B1148R

B3002—White cap w/3 screws for B961R

B3002N—Red nun cap w/3 screws for B961RC

B3002G—Green cap w/3 screws for B961GC

B1251FCAP—White cap for B1251

B1428FCAP—White cap for B1428

B1981FP—Foam plug white 1"

Larger size caps available

Call for pricing

RESTORATION KIT

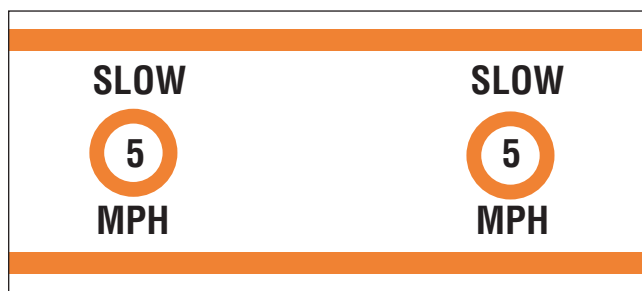
MODEL B2937

For model B2445 & B2460 Buoys

- Two 3" orange reflective bands
- One 3" silver reflective bands
- Two reflective symbols
- Black 3" letters for message
- All items are self adhesive

VINYL WRAPPERS

for renewing appearance of buoys



White, self-adhesive wrappers—complete with orange bands, symbols and black messages. Specify symbols and messages desired.

B2939B	for B1147WR and B1147R buoys, with bands
B2939WB	for B1147WR and B1147R buoys, without bands
B2939SM	for B1149SM buoy
B2939BHD	for B961R buoys, with bands
B2939WBHD	for B961R buoys, without bands
B29312B	for B1251 buoys, with bands
B29312WB	for B1251 buoys, without bands
B29313B	for B1352 buoys, with bands
B29313WB	for B1352 buoys, without bands
B29314B	for B1452 buoys, with bands
B29314WB	for B1452 buoys, without bands
B293FCB	for B1428 float collar buoys, with bands
B293FCWB	for B1428 float collar buoys, without bands
B2413WR	for B2413UL buoy
B2445WBR	for B2445 buoy with bands
B5CPRWBS	for B5CPR buoy with bands
B576WB	for B576S buoy with bands

12", 13", and 14" diameter wrappers supplied in two sections for easier application | Wrappers available for other buoys | Call for pricing

B2351 Spreader to apply wrapper

WHITE CAULK

for repair of damaged buoys

Make durable repairs that extend buoy serviceability

B2933C	White caulk w/tip & spreader
B2933GK	Caulk gun conversion kit
B2933T	Tip for caulk tube

CLEAR-GUARD PROTECTIVE COATING

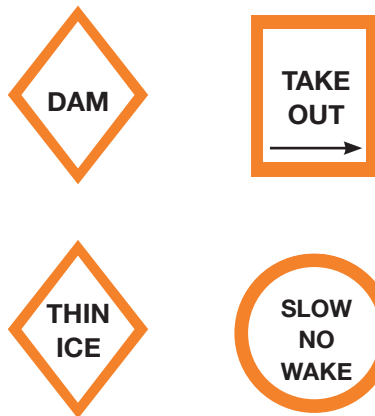
helps restore gloss and ultraviolet protection

Air dries in approximately 15 minutes
Disposable gloves provided with order

	Approx. Coverage
B2938 —1 quart	50 9" buoys
B2939 —1 gallon	200 9" buoys

Warning and Portage Signs

Bold black message on white reflective background with orange border
.080" aluminum base material | Excellent visibility, day and night

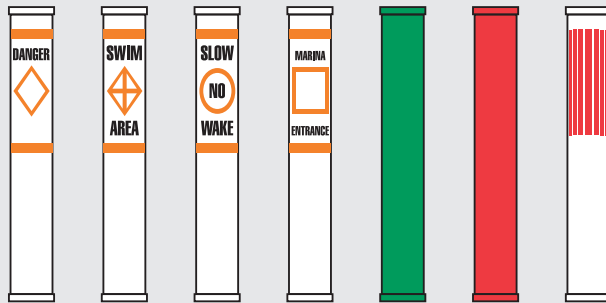


DAM		TAKE OUT		
SIZE (IN.)	PART NO.	SIZE (IN.)	PART NO.	RIGHT ARROW
24 x 24	B2011	24 x 24	B2012L	B2012R
30 x 30	B2021	30 x 30	B2022L	B2022R
36 x 36	B2031	36 x 36	B2032L	B2032R
48 x 48	B2211	48 x 48	B2212L	B2212R

THIN ICE		SLOW NO WAKE	
SIZE (IN.)	PART NO.	DIA. (IN.)	PART NO.
24 x 24	B2013	24	B22258
30 x 30	B2023	30	B22259
36 x 36	B2033	36	B22260
48 x 48	B2213		

Educational Buoys • Miniature Replicas

Non-functional, for educational use only



MODEL B2510ES

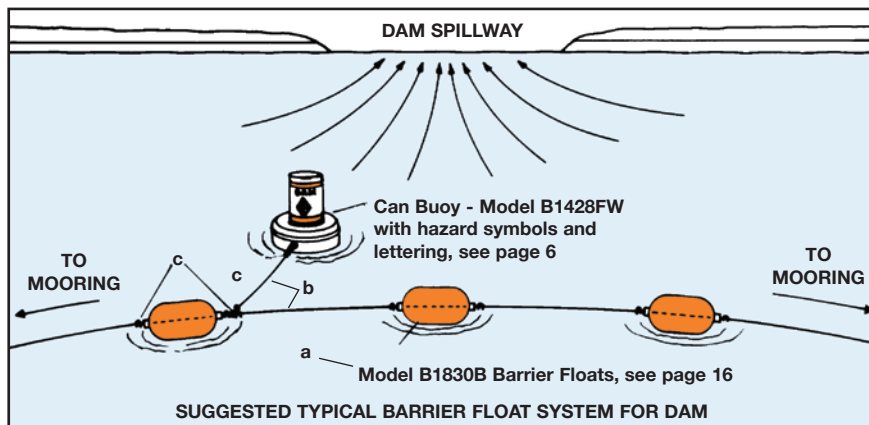
- 2½" diameter x 10" identical replicas of Rolyan® regulatory buoys showing standard inland waterway symbols and messages. Set of seven buoys includes:
- Swim Area/No Boats
- Danger/Hazard
- Slow No Wake/No Wake Idle Speed
- Marina Entrance
- Red Channel Marker
- Green Channel Marker
- Centerline Marker Red & White
- Net wt. – 1.75 lbs.

STANDARD INLAND WATERWAY SYMBOLS AND MESSAGES

Special messages are available by quote request

CONTROLLED AREA SYMBOL	HAZARD WARNING SYMBOL	RESTRICTED AREA SYMBOL	INFORMATION SYMBOL
<p>12"</p> <p>2" band width</p>	<p>14"</p> <p>11"</p> <p>2" band width</p>	<p>14"</p> <p>11"</p> <p>2" band width</p>	<p>14"</p> <p>11"</p> <p>2" band width</p>
STANDARD MESSAGES SLOW 5 MPH SLOW NO WAKE SKI AREA NO SKI SLOW 10 MPH SPEED ZONE NO WAKE IDLE SPEED	STANDARD MESSAGES ROCK DANGER RAPIDS SHOAL STUMP SHALLOW AREA HAZARD AREA DANGER DAM	STANDARD MESSAGES SWIM AREA KEEP OUT NO BOATS BOATS KEEP OUT CLOSED AREA NO BOATING DANGER DAM	STANDARD MESSAGES REST ROOM 1 MILE STATE PARK AHEAD MARINA ENTRANCE FISH ATTRACTOR

Application and Mooring Suggestions



Typical Barrier Float System

The diagram illustrates one suggestion for a barrier float system using Rolyan® floats, buoys, and hardware

- a. B1830B floats
- b. Permaflex® cable
- c. Cable clamps selected for cable size

Selecting Equipment

- Use B1830B floats having a 1" galvanized pipe through
- The B1830B is a rugged, highly visible float designed specifically for the demands of barrier float lines
- It is normally used at 25 ft. spacing, held in position with cable clamps
- Use B1428FW fast water buoys with warning symbols and lettering, see page 6
- Normal spacing is 75 to 100 ft

Barrier System Moorings

Moorings should be designed to resist a pull greater than the breaking strength of the cable used

Other Factors to Consider

1. Wind loads against floats
2. Debris loads due to collecting on cable and against floats, especially during flood periods
3. Current loads against the floats as they become submerged due to debris collection

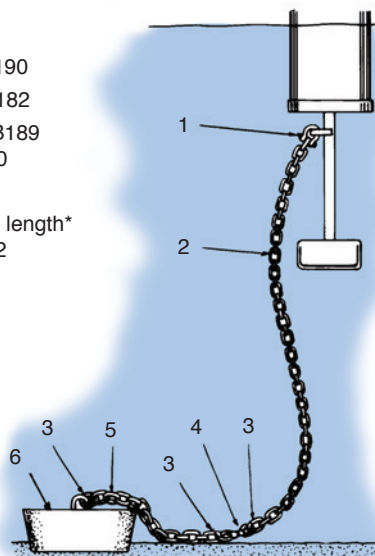
Suggested Safety Factors in Cable Selection

- 1.5 to 3 times the predicted strength requirements, recommended only for light-duty applications where debris does not present a problem
- 3 to 6 for more critical situations

Mooring Suggestions For Can and Nun Buoys

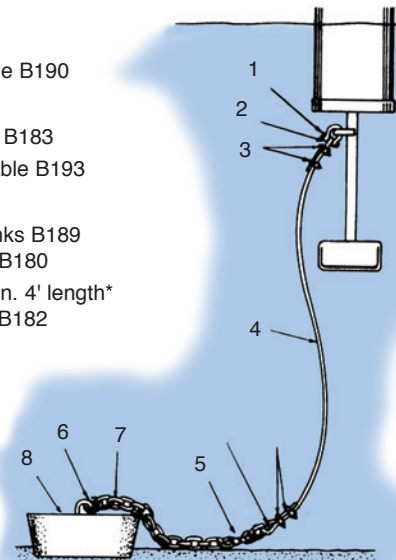
Chain Mooring

1. Anchor shackle B190
2. Proof coil chain B182
3. Connecting links B189 or quick links B180
4. Swivel B192
5. Drag chain min. 4' length* 1/2" or larger B182
6. Anchor



Cable Mooring

1. Anchor shackle B190
2. Thimble B231
3. Cable clamps B183
4. Permaflex® cable B193
5. Swivel B192
6. Connecting links B189 or quick links B180
7. Drag chain min. 4' length* 1/2" or larger B182
8. Anchor



For chain, cable and hardware, see page 20

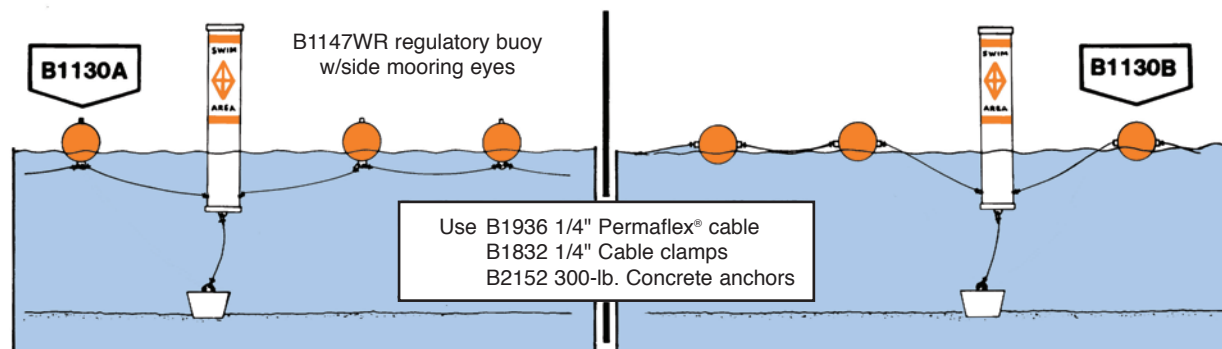
*Note: Length and size of drag chain are dependent on wave action

Note: The design and selection of a mooring system should be determined by a qualified professional engineer who is familiar with the specific application and local conditions. The illustrations shown on this page are provided for general informational purposes only, and are not intended to be suggested designs. The company assumes no responsibility for any mooring system based upon these illustrations.

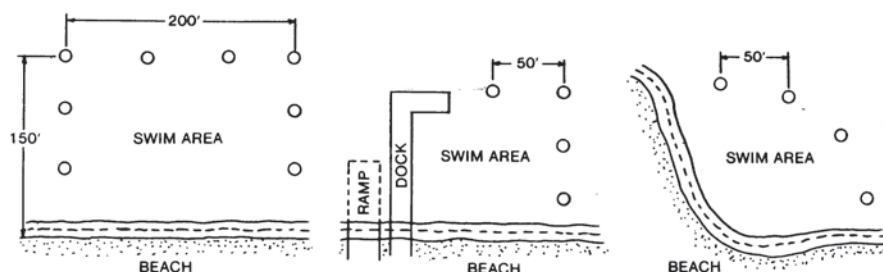
Application and Mooring Suggestions

Suggestions For Using B1130 Floats with B1147WR Buoys in Swim Areas

Also see chain, cable, hardware and anchor information, page 20

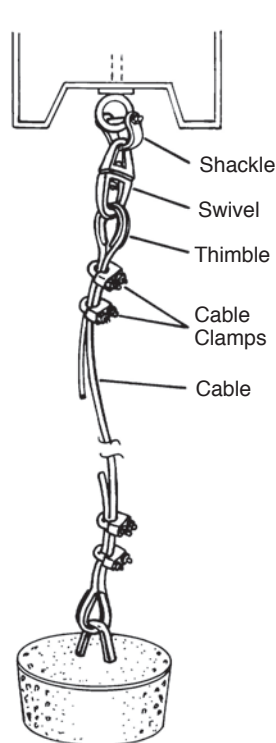


Layout Suggestions For Using B1147WR Buoys In Swim Areas



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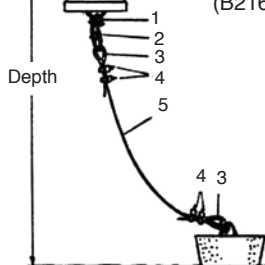
Installation Suggestions for B1147WR or B961R Buoys With Anchors



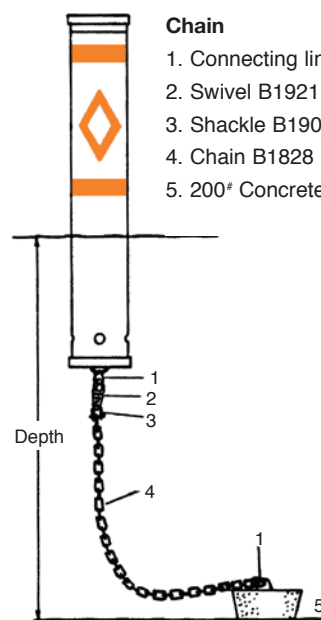
Permaflex® Cable

1. Anchor shackle B190
2. Swivel B192
3. Cable thimble B231 (one each end of cable)
4. Wire rope clamp B189 (two required each end of cable)
5. Permaflex® cable B193 – length

A concrete anchor or 200-lb. (B21620) is recommended



Permaflex® Cable		
SIZE (IN.)	PART NO.	Max. Length 1147 Type Buoys will Support
3/16"	B1934	100'
1/4"	B1936	75'
5/16"	B1931	45'
15/32"	B1933	18'



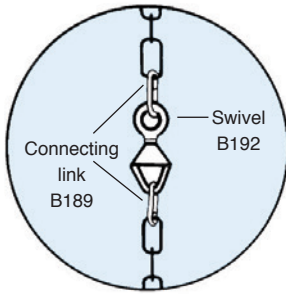
Chain

1. Connecting link B1891
2. Swivel B1921
3. Shackle B1900
4. Chain B1828
5. 200# Concrete anchor B21620

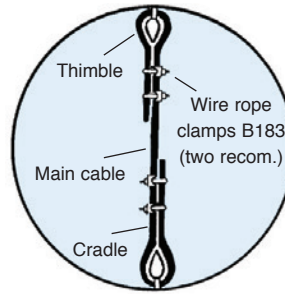
Proof Coil Chain		
SIZE (IN.)	PART NO.	Max. Length 1147 Type Buoys will Support
1/4"	B1828	12'

For cable, chain and hardware, see page 20

Mooring Suggestions



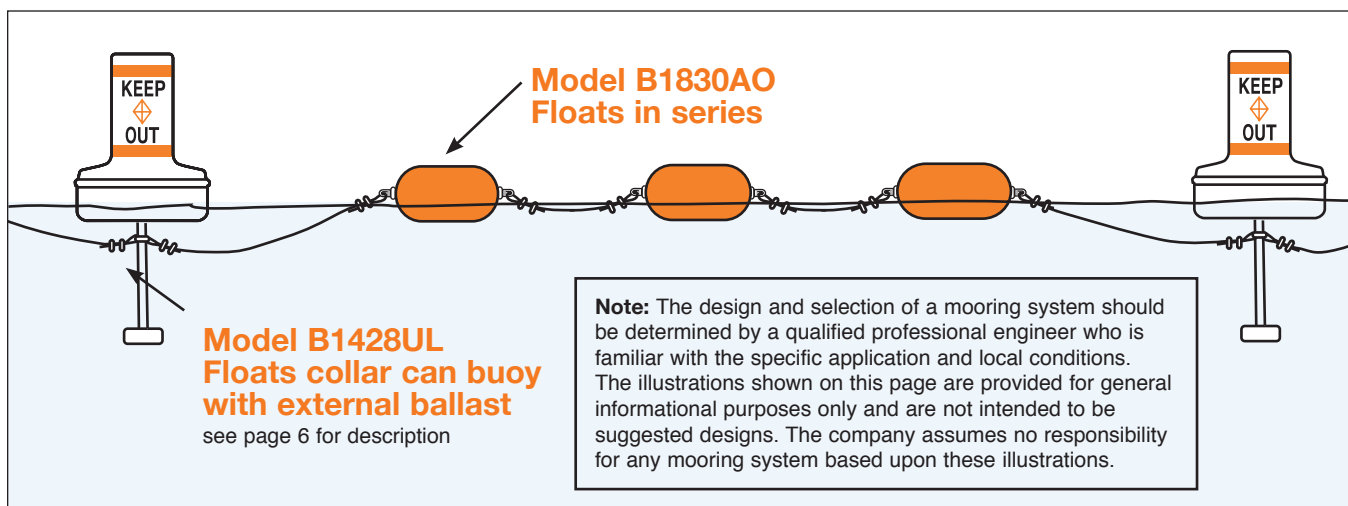
Use swivels to cut chain wear and increase buoy performance. Wind, wave, and current action causes buoys to rotate. This rotation, if severe, can cause chain or cable to twist, which will eventually submerge the buoy, increase chain wear, and increase the load on the anchor.



Correct cable clamp assembly. Note from the sketch that the cradle is tightened against main cable. This is the correct assembly method to insure against the clamps slipping while in service. Be sure to tighten nuts down, alternating from side to side frequently. Thimbles should be assembled so they are firmly trapped within the cable loop.

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Typical Barrier Float System





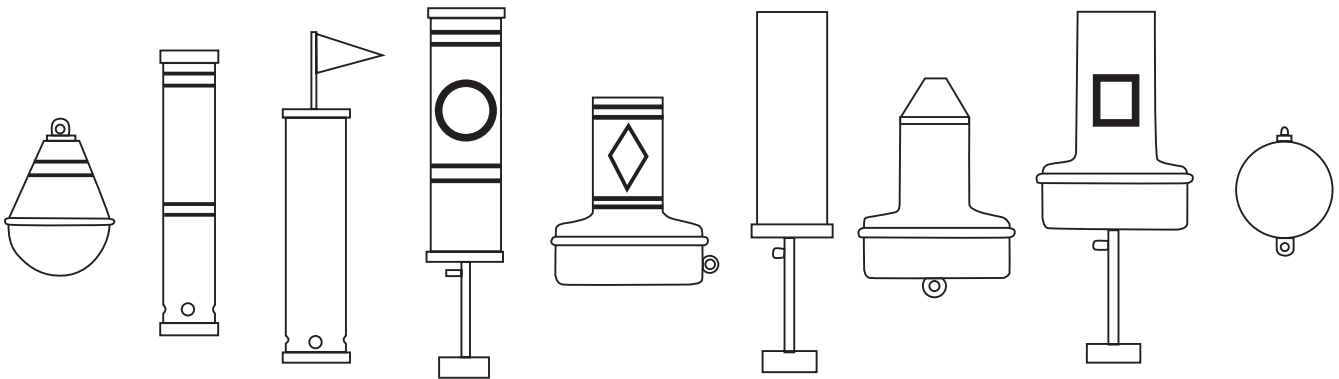
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RolyanBuoy.com

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Rolyan Has a Buoy or Float for Every Need

All Rolyan buoy colors and marking meet and conform with all State and Federal regulations. They are used by U.S. Army Corps of Engineers, U.S. Coast Guard, State Parks, Sheriffs Department, Yacht Clubs, Marinas and Resorts.

This catalog contains many suggestions for the application and use of Rolyan® products as an aid in satisfying your needs. If you require additional help, our sales/engineering staff is available to offer professional advice. You may send your requirements or call toll-free for personal attention.