





BACKGROUND

Baier is the first name associated with marine hatches, having set the standard for the industry since 1947. Baier invented and patented the first flush hatch, was the original designer and supplier of flush hatches to the military, and was the first flush hatch manufacturer to receive American Bureau of Shipping (ABS) and U.S. Coast Guard certification for their product. The Baier hatch is used on all types of fishing boats, tugs, barges, work boats, rescue boats, and other marine vessels in both the military and private sectors.





UNIQUE DESIGN

Most Baier Hatches use the patented strongback system of securing the hatch cover to the deck. It is superior to other more complicated hatch closure systems because:

- It is **SIMPLE**. Only two moving parts insure many more trouble free years of operation. Simplicity equals safety when at sea
- It is **STRONG**. No other closure system is as rugged or durable. Stronger is better.
- It is more reliably WATERTIGHT.
- It is **SERVICEABLE**. Baier stocks a complete inventory of parts with same day shipment. Simply remove the old part and replace with the new. No need to send the hatch back to the manufacturer for repairs.
- All these features add up to LOW MAINTENANCE.

Photo Courtesy of Munson Boats

CERTIFICATION AND APPROVAL

Baier Hatches have been approved and used by the American Bureau of Shipping (ABS), U.S. Coast Guard, U.S. Army Corps of Engineers, and the Canadian Department of Transport. Since 1947, Baier's long list of satisfied customers is the best testimonial to our products. Baier would not be here today without their loyalty.



QUALITY MATERIALS

The Baier flush hatch product line is available in cast aluminum and cast heattreated galvanized steel.

Photo Courtesy of Mooney Boats. Ltd.



WIDE PRODUCT LINE

Baier quick opening, positive locking hatches are available in round, oval, lift-out, hinged, and coaming configurations.

Baier is the only hatch available in steel (versus iron). Steel is more durable than iron. Steel hatches have up to 300% greater impact resistance, energy absorption, and ductility versus iron hatches (especially at low temperatures).

Photo Courtesy of Munson Boats





SEATTLE, WA COSTA MESA, CA
800-455-3917 WWW.baiermarine.com





Drawing #

286-1

630

625

541

543-1

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Series BFHR Specs.

Series BFHHR Specs. Model BFHHR22

Series BFHO Specs.

Series BFHHO Specs.

Model BFHHO15x24

Model BFHO15x24

Model BFHR24

Model BFHR14,16, 18, 20

Baier Classic HEX-Bolt Strongback

Our simplest and most popular hatch featuring the proven Baier strongback system and the classic Hex wrench mode operation. The simple mechanical design ensures operation without fail and has set the standard for marine hatches in the market since 1947.



Clear Opening

14,16,18,20 Ø

24" Ø

22" Ø

15" x 24"

15" x 24"



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Baier T-Handle Strongback

Round - Lift Out

Round - Hinged

Oval - Lift Out

Oval - Hinged

A best of both world solutions. Still featuring the strength and simplicity of the Baier strongback system but with the added convenience of a built-in recessed T-Handle. Never lose wrenches needed for operation with this completely self-contained hatch.

Round - T-handle Lift Out	Series BFHRTH Specs.	Clear Opening	Drawing #	AL	ST	15
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-	Model BFHHSQ24x24	24" x 24	# 725	Х		25

Baier Quick-Acting 4 Dog

Based on an industry standard this Quick Acting flush hatch also features the built-in recessed T-handle with the added function of 4-dog engagement. This proven design allows for positive verification of engagement and easy quarter-turn operation.

Round - QA 4-Dog Lift Out	Series BFHQTH Specs.	Clear Opening	Drawing #	AL	ST	27
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Туре F	Model BFHQTHF15x24	15" x 24"	# 800	X		30

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	Model UP-HNDWHL for Stror	0	08863-238A	X		16
	Model UP-HNDWHL For QA	4-dog	08864-212A	X		28
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QUICH





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Steel Multi-Bolt Manhole Covers

Our manholes are a great alternative to flush hatches for applications of non-frequent access. Baier offers a complete line of manholes with a configuration and hardware combination to fit your need. Please find out more about the configuration on our manhole product pages.

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Oval - 15X23 - 20 Bolt	Series BMHC15X23 Specs.	Clear Opening	Drawing #	37
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	Model BMHC15X23F - FLUSH SCREW	15" x 23"	08866-101F	40
	Model BMHC15X23S - WELD STUD	15" x 23"	08866-101S	40
	Model BMHC15X23Z - 3" NPT PLUG	15" x 23"	08866-101Z	40
	Model BMHC15X23BZ - WELD BOLT	15" x 23"	02590-101A	40
	Model BMHC15X23BS - WELD BOLT	15" x 23"	02590-105A	40
	Model BMHC15X23x2.5BZ - RAISED	15" x 23"	02570-101A,	40
Oval - 15X23 - 26 Bolt	Series BMHC15X23-26 Specs.		101S, 105S	38
	Model BMHC15X23-26D TAP RING	15" x 23"	02590-102SA	40
	Model BMHC15X23-26F FLUSH SCREW	15" x 23"	02610-101A	40
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	Model BMHC14SS-4.5 - RAISED 41/2"	14" Ø	08451-112B	40
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	Model BMHC18SS-9 - RAISED 91/2"	18" Ø	08450-121B, 122B	40
				L

For Complete Listing of Manholes - SEE MANHOLE FEATURE WORKSHEET

Universal Steel Hatches

Other industry standard steel hatches available. Baier now offers a complete line of universal hatches to fit your need. These hatches are a great value.

your need. These hatches are a great va	lue. T-Bolt Single Bolt	Twist Lock	Ullage Mult-E	Dog 6
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UNIVERSAL TEEL HATCH





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Reliable easy-access water-tight doors are another product line that Baier Marine now offers to the industry. All of our doors are built using high quality hardware and are available in both left and right-hand models to suit your needs.

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QA Door

vels

Universal Steel Kevels, Chocks, & Bitts

BAILER

Marine

Company. Inc.

Standard marine industry steel casting made from ASTM A27-70-36 steel. These deck fitting are available in all sizes from small to large to suit your needs and built to handle the toughest conditions and heaviest of loads.

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Kevels	Series UMC-Kevels Specs.	Drawing #	56		
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800-455-3917





Classic HEX-Bolt Strongback Hatches

BFHR Series Round - Lift Out

The popular "Classic" Baier Flush Hatch™ is the flush-mounted, quick release, lift-out hatch with grab handles as shown. It has long been standard equipment on fishboats, tugs, barges, workboats, and other marine vessels, as well as many U.S. Navy and U.S. and Canadian Coast Guard vessels.

FEATURES

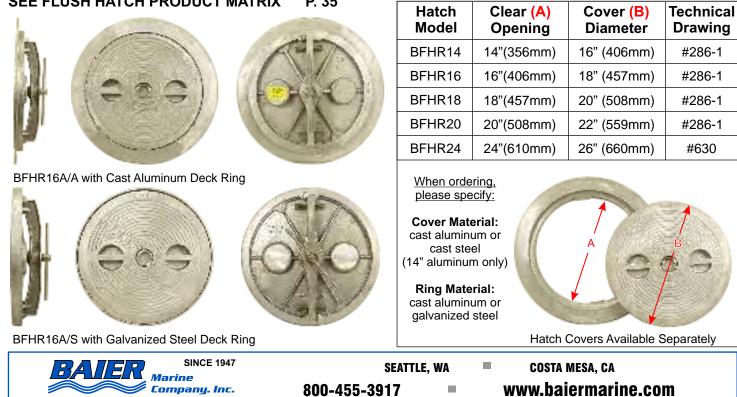
- Cast Hatch Cover
- Cast Strongback
- Stainless Steel Hex Centerbolt and hardware
- Neoprene Cover Gasket and Washers (Buna-N optional)
- Cast / fabricated matching Deck Ring
- Every unit shipped with an underside escape turning bar for safety (turning wheel optional)
- Detachable Hex wrench used for quick operation, can be stored separately for security

STRENGTH, SIMPLICITY and SECURITY

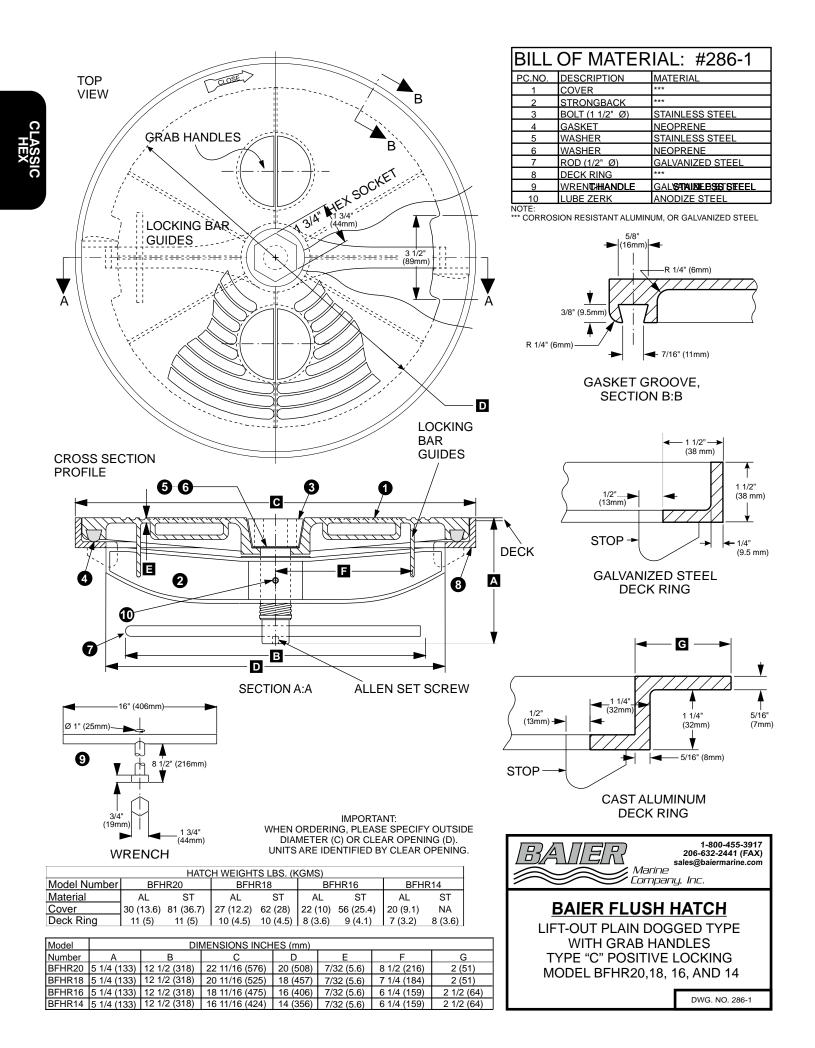
The ultimate in strength and simplicity, Baier's original patented strongback system has only two moving parts to secure the hatch cover to the deck. It is superior to other more complicated hatch closure systems in that it is simpler, stronger, more reliably watertight, infinitely adjustable from topside, and more easily serviced (parts are readily available and replaced in the field). Importantly, the recessed hex centerbolt and grab handles offer no snags for nets, lines or hardware.

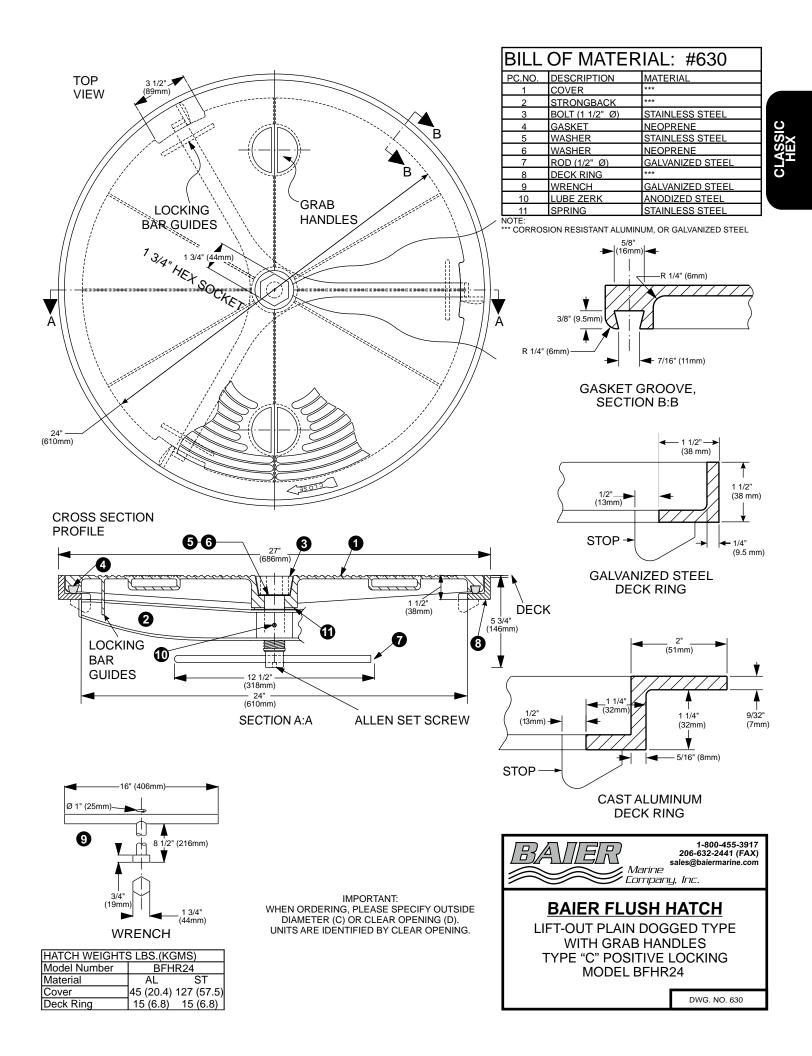
MATERIALS

The majority of the Classic Model BFH hatch cover product line is available in both cast aluminum and cast steel. Steel Cover assemblies and deck rings are hot dip galvanized for superior corrosion resistance. No other flush hatch is available in cast steel (which is stronger, more durable, and more impact resistant when compared to iron hatches, especially in cold climates). The deck ring is available in galvanized mild steel (for welding into steel decks), or cast aluminum (for welding into aluminum decks or bolting to fiberglass or wood decks). Fabricated stainless deck rings are available by special order.













BFHO Series Oval - Lift Out

The popular "Classic" Baier Flush Hatch™ is the flush-mounted, quick release, lift-out hatch with grab handles as shown. It has long been standard equipment on fishboats, tugs, barges, workboats, and other marine vessels, as well as many U.S. Navy and U.S. and Canadian Coast Guard vessels.

FEATURES

- Cast Hatch Cover
- Cast Strongback
- Stainless Steel Hex Centerbolt and hardware
- Neoprene Cover Gasket and Washers (Buna-N optional)
- Cast / fabricated matching Deck Ring
- Every unit shipped with an underside escape turning bar for safety (turning wheel optional)
- Detachable Hex wrench used for guick operation, can be stored separately for security

STRENGTH, SIMPLICITY and SECURITY

The ultimate in strength and simplicity, Baier's original patented strongback system has only two moving parts to secure the hatch cover to the deck. It is superior to other more complicated hatch closure systems in that it is simpler, stronger, more reliably watertight, infinitely adjustable from topside, and more easily serviced (parts are readily available and replaced in the field). Importantly, the recessed hex centerbolt and grab handles offer no snags for nets, lines or hardware.

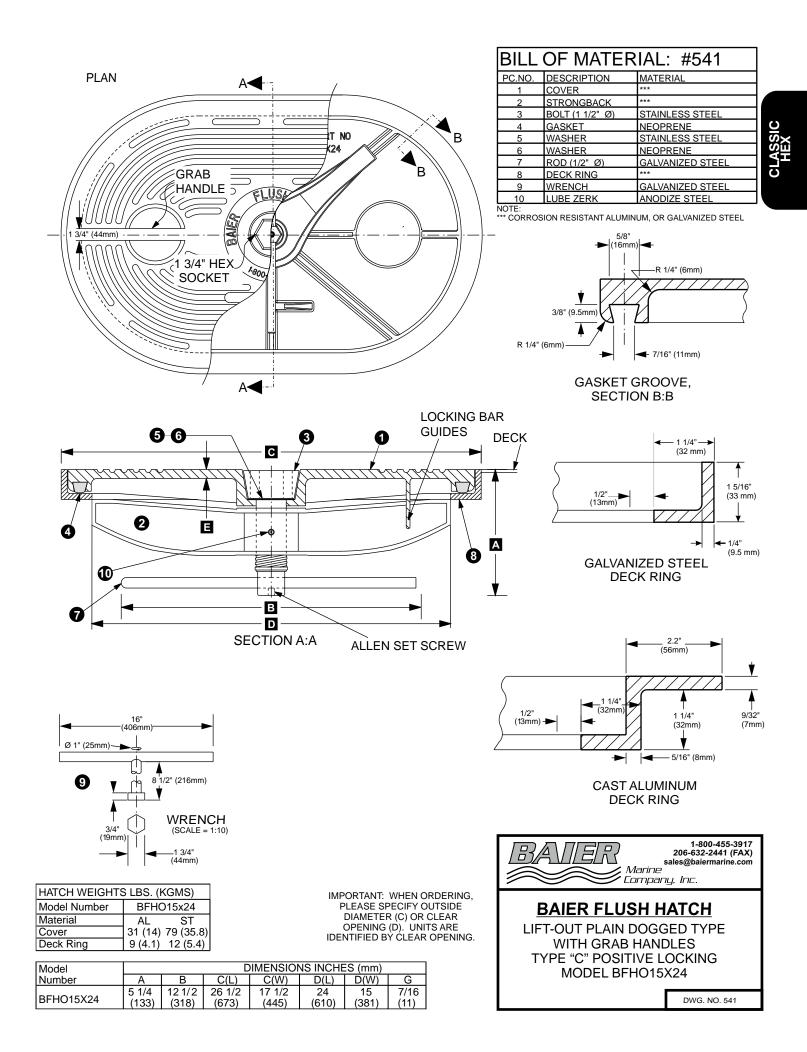
MATERIALS

The majority of the Classic Model BFH hatch cover product line is available in both cast aluminum and cast steel. Steel Cover assemblies and deck rings are hot dip galvanized for superior corrosion resistance. No other flush hatch is available in cast steel (which is stronger, more durable, and more impact resistant when compared to iron hatches, especially in cold climates). The deck ring is available in galvanized mild steel (for welding into steel decks), or cast aluminum (for welding into aluminum decks or bolting to fiberglass or wood decks). Fabricated stainless deck rings are available by special order.

SEE FLUSH HATCH PRODUCT MATRIX P. 35

Canadian Patent 772,905. United States Patent 3,209,663







Classic HEX-Bolt Strongback Hatches

BFHHR Series Round - Hinged BFHHO Series Oval - Hinged

The popular "Classic" Baier Flush Hinged Hatch™ is the flushmounted, quick release, hingedt hatch with grab handles as shown. It has long been standard equipment on fishboats, tugs, barges, workboats, and other marine vessels, as well as many U.S. Navy and U.S. and Canadian Coast Guard vessels.

FEATURES

- Cast Hatch Cover
- Cast Strongback
- Stainless Steel Hex Centerbolt and hardware
- Neoprene Cover Gasket and Washers (Buna-N optional)
- Cast / fabricated matching Deck Ring
- Every unit shipped with an underside escape turning bar for safety (turning wheel optional)
- Detachable Hex wrench used for guick operation, can be stored separately for security

STRENGTH, SIMPLICITY and SECURITY

The ultimate in strength and simplicity. Baier's original patented strongback system has only two moving parts to secure the hatch cover to the deck. It is superior to other more complicated hatch closure systems in that it is simpler, stronger, more reliably watertight, infinitely adjustable from topside, and more easily serviced (parts are readily available and replaced in the field). Importantly, the recessed hex centerbolt and grab handles offer no snags for nets, lines or hardware.

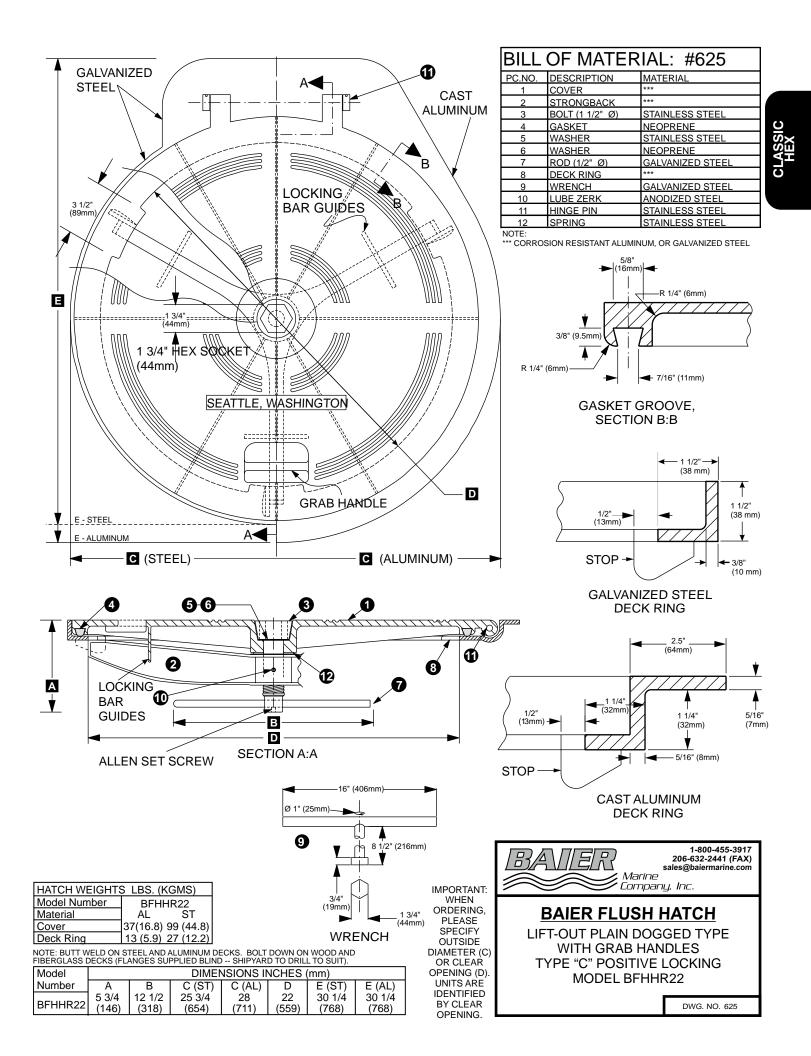
MATERIALS

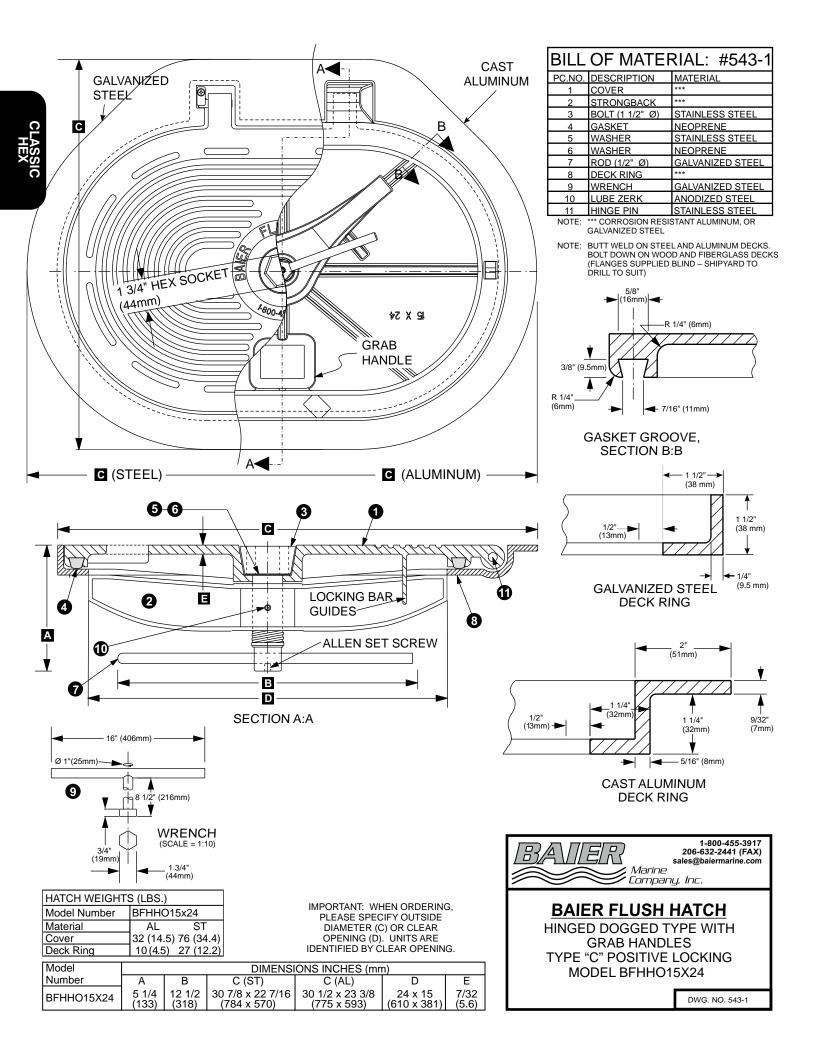
The majority of the Classic Model BFH hatch cover product line is available in both cast aluminum and cast steel. Steel Cover assemblies and deck rings are hot dip galvanized for superior corrosion reisstance. No other flush hatch is available in cast steel (which is stronger, more durable, and more impact resistant when compared to iron hatches, especially in cold climates). The deck ring is available in galvanized mild steel (for welding into steel decks), or cast aluminum (for welding into aluminum decks or bolting to fiberglass or wood decks). Fabricated stainless deck rings are available by special order.

SEE FLUSH HATCH PRODUCT MATRIX P. 35 Hatch Model: **BFHHR22** Clear Opening (A): 22" Ø (559 mm) Cover Diameter (B): 24" Ø (610 mm) **Technical Drawing:** #625 BFHR22A/A with Cast Aluminum Deck Ring Hatch Model: BFHHR15x24 Clear Opening (A): 15" x 24 (381 mm x 610 mm) Cover Dimension (B): 17" x 26" (432 mm x 660 mm) **Technical Drawing:** #543 BFHHR15X24A/A with Cast Aluminum Deck Ring Hatch Covers Available Separately **SINCE 1947** SEATTLE, WA COSTA MESA, CA Marine www.baiermarine.com 800-455-3917 Company. Inc.



Canadian Patent 772,905. United States Patent 3,209,663







Hatches + Deck Fittings

T-Handle Strongback Flush Hatch

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BFHRTH Series Round - Lift Out

This popular strongback hatch design series adds the convenience of a built-in recessed Stainless Steel T-handle to the flush-mounted, quick release, lift-out hatch. The design is especially popular on aluminum boats, fishing and other workboats, as well as many U.S. Navy and U.S. and Canadian Coast Guard vessels.

FEATURES

Unique:

- Cast Hatch Cover (unique no grab handles)
- Stainless Steel Centerbolt and hardware
- Built-in Stainless Steel T-Handle used for quick engagement as well as lifting

Shares with Classic HEX-Bolt Series:

- Cast Strongback
- Cast / fabricated matching Deck Ring
- Neoprene Cover Gasket and Washers (Buna-N optional)
- Every unit shipped with an underside escape turning bar for safety
- Turning wheel optional

STRENGTH, SIMPLICITY and CONVENIENCE



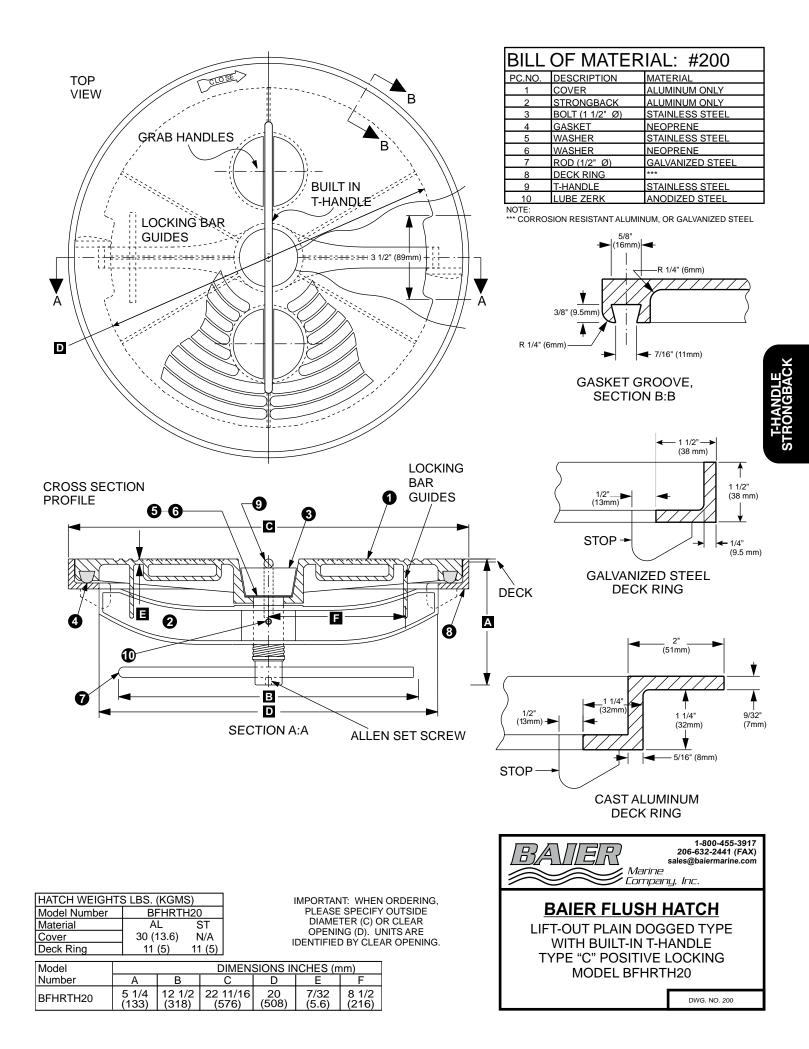
The T-Handle Strongback system has only three moving parts to secure the hatch cover to the deck. Like the Classic HEX it is simple, strong, reliably watertight, infinitely adjustable from topside, and easily serviced (parts are readily available and replaced in the field).

MATERIALS

The T-Handle Strongback hatch cover product line is available only in cast aluminum. The deck rings used are the same as the Classic HEX and are available in galvanized mild steel (for welding into steel decks), or cast aluminum (for welding into aluminum decks or bolting to fiberglass or wood decks). Stainless deck rings are available by special order.

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	Hatch Model	BFHRTH20
	Clear <mark>(A)</mark> Opening	20" Ø (508 mm) Ø
	Cover <mark>(B)</mark> Diameter	22" Ø (559 mm) Ø
	Technical Drawing	#200
BFHRTH20A/A with Cast Aluminum Deck Ring	When ordering. please specify:	
	Cover Material: cast aluminum	AB
	Ring Material: cast aluminum or galvanized steel	
BFHRTH20A/S with Galvanized Steel Deck Ring		Hatch Covers Available Separately
SINCE 1947 SEATTL Marine Company. Inc. 800-455-3917		costa mesa, ca v.baiermarine.com







BFHRTH8 Series Round - Lift Out

This popular strongback hatch design series adds the convenience of a built-in recessed Stainless Steel T-handle to the flush-mounted, quick release, lift-out hatch. This design is especially popular on aluminum boats, fishing and other workboats, as well as many U.S. Navy and U.S. and Canadian Coast Guard vessels.

FEATURES

- Cast Hatch Cover
- Stainless Steel Centerbolt and hardware
- Built-in Stainless Steel T-Handle used for quick engagement as well as lifting
- Cast Strongback
- Cast / Fabricated Matching Deck Ring
- Neoprene Cover Gasket and Washers(Oil Resistant BUNA-N Available)



BFHRTH8 - With built-in T-handle. Available in cast Aluminum.

STRENGTH, SIMPLICITY and CONVENIENCE

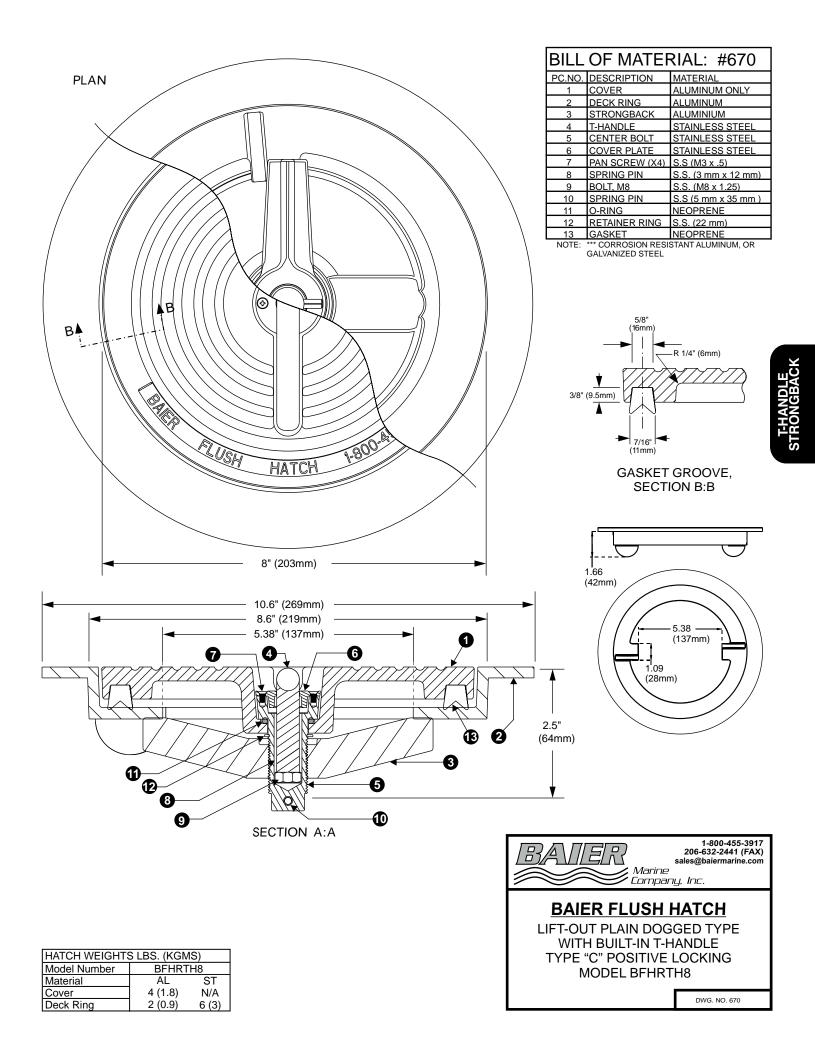
The T-Handle Strongback system has only three moving parts to secure the hatch cover to the deck. Like the Classic HEX it is simple, strong, reliably watertight, infinitely adjustable from topside, and easily serviced (parts are readily available and replaced in the field).

MATERIALS

The T-Handle Strongback hatch cover product line is available only in cast aluminum. The deck rings used are the same as the Classic HEX and are available in galvanized mild steel (for welding into steel decks), or cast aluminum (for welding into aluminum decks or bolting to fiberglass or wood decks). Stainless Steel deck rings are available by special order.

Hatch









BFHOTH Series Oval - Lift Out

This popular strongback hatch design series adds the convenience of a built-in recessed Stainless Steel T-handle to the flush-mounted, quick release, lift-out hatch. The design is especially popular on aluminum boats, fishing and other workboats, as well as many U.S. Navy and U.S. and Canadian Coast Guard vessels.

FEATURES

Unique:

- Cast Hatch Cover (unique no grab handles)
- Stainless Steel Centerbolt and hardware
- Built-in Stainless Steel T-Handle used for quick engagement as well as lifting

Shares with Classic HEX-Bolt Series:

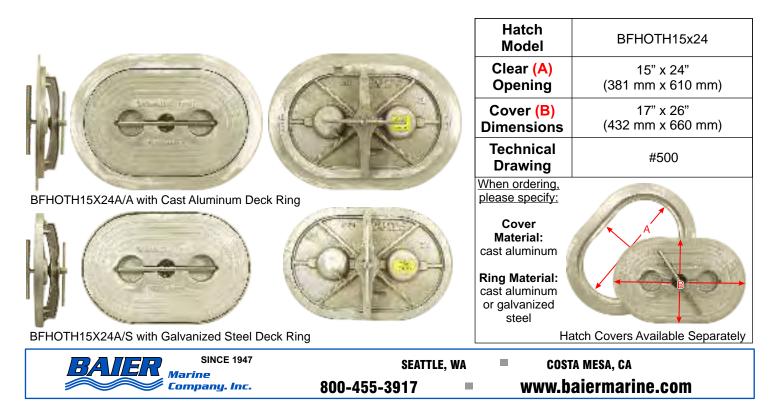
- Cast Strongback
- Cast / fabricated matching Deck Ring
- Neoprene Cover Gasket and Washers (Buna-N optional)
- Every unit shipped with an underside escape turning bar for safety
- Turning wheel optional

STRENGTH, SIMPLICITY and CONVENIENCE

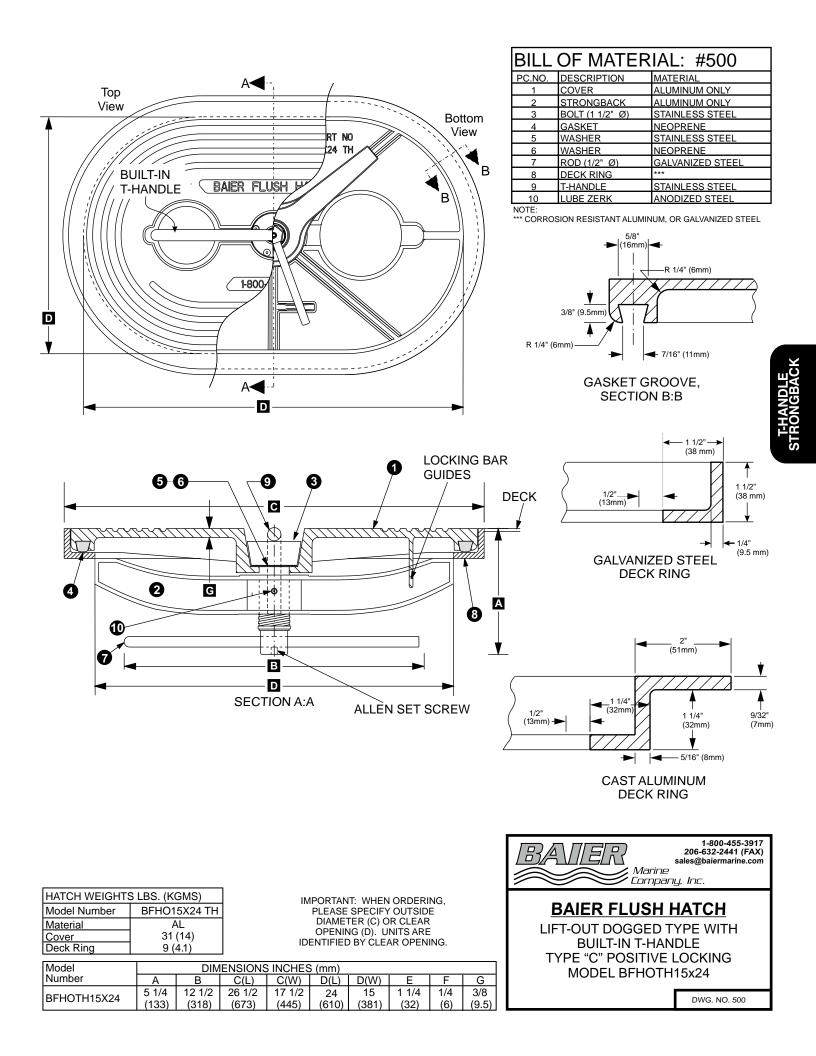
The T-Handle Strongback system has only three moving parts to secure the hatch cover to the deck. Like the Classic HEX it is simple, strong, reliably watertight, infinitely adjustable from topside, and easily serviced (parts are readily available and replaced in the field).

MATERIALS

The T-Handle Strongback hatch cover product line is available only in cast aluminum. The deck rings used are the same as the Classic HEX and are available in galvanized mild steel (for welding into steel decks), or cast aluminum (for welding into aluminum decks or bolting to fiberglass or wood decks). Stainless deck rings are available by special order.











BFHSQ Series Square - Lift Out

This popular strongback hatch design series adds the convenience of a built-in recessed Stainless Steel T-handle to the flush-mounted, quick release, lift-out hatch. The design is especially popular on aluminum boats, fishing and other workboats, as well as many U.S. Navy and U.S. and Canadian Coast Guard vessels.

FEATURES

Unique:

- Cast Hatch Cover (unique no grab handles)
- Stainless Steel Centerbolt and hardware
- Built-in Stainless Steel T-Handle used for quick engagement as well as lifting

Shares with Classic HEX-Bolt Series:

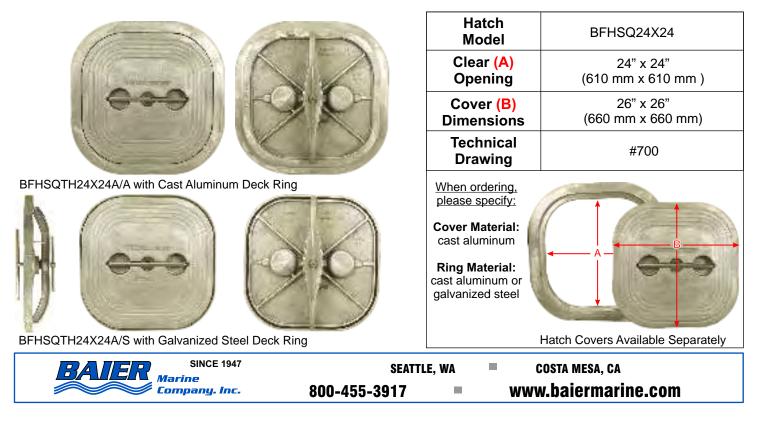
- Cast Strongback
- Cast / fabricated matching Deck Ring
- Neoprene Cover Gasket and Washers (Buna-N optional)
- Every unit shipped with an underside escape turning bar for safety
- Turning wheel optional

STRENGTH, SIMPLICITY and CONVENIENCE

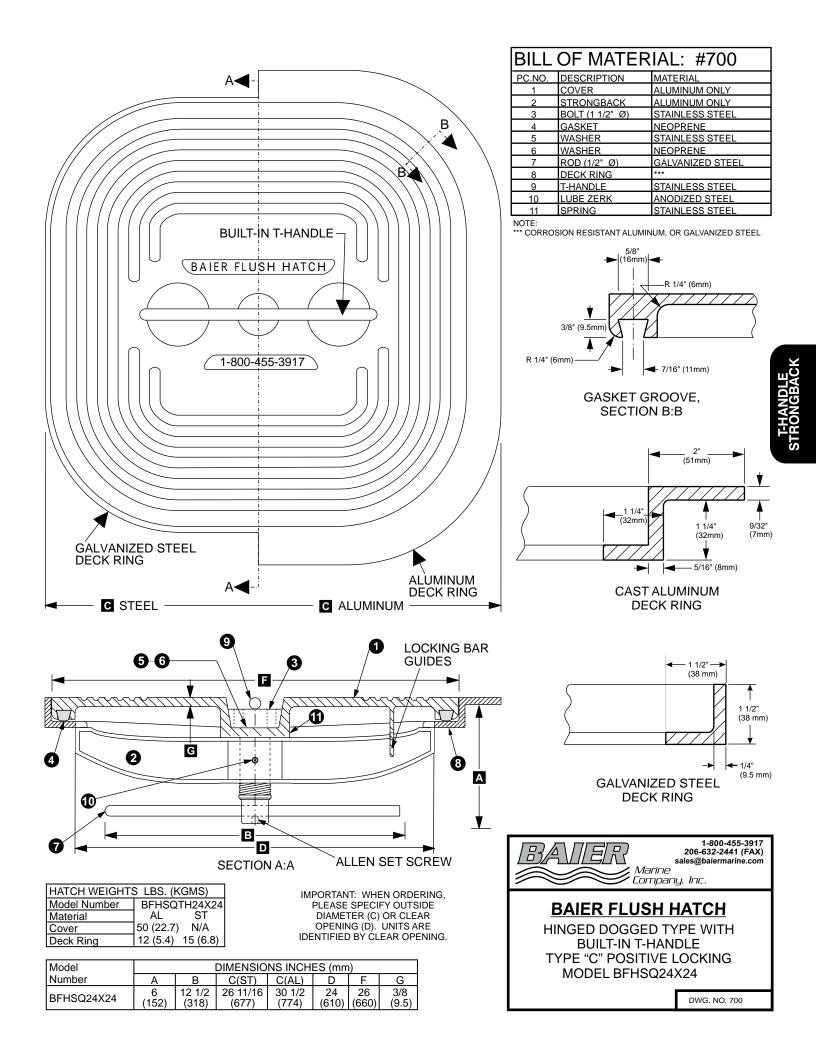
The T-Handle Strongback system has only three moving parts to secure the hatch cover to the deck. Like the Classic HEX it is simple, strong, reliably watertight, infinitely adjustable from topside, and easily serviced (parts are readily available and replaced in the field).

MATERIALS

The T-Handle Strongback square hatch cover product line is available only in cast aluminum. The deck rings used are the same as the Classic HEX and are available in galvanized mild steel (for welding into steel decks), or cast aluminum (for welding into aluminum decks or bolting to fiberglass or wood decks). Stainless deck rings are available by special order.











BFHHOTH Series Oval - Hinged **BFHHSQ Series** Square - Hinged

This popular strongback hinged hatch design series adds the convenience of a built-in recessed Stainless Steel T-handle to the flush-mounted, quick release, hinged hatch. The design is especially popular on aluminum boats, fishing and other workboats, as well as many U.S. Navy and U.S. and Canadian Coast Guard vessels.

FEATURES

Unique:

- Cast Hatch Cover (unique no grab handles)
- Stainless Steel Centerbolt and hardware
- Built-in Stainless Steel T-Handle used for quick engagement as well as lifting

Shares with Classic HEX-Bolt Series:

- Cast Strongback
- Cast / fabricated matching Deck Ring
- Neoprene Cover Gasket and Washers (Buna-N optional)
- · Every unit shipped with an underside escape turning bar for safety
- Turning wheel optional

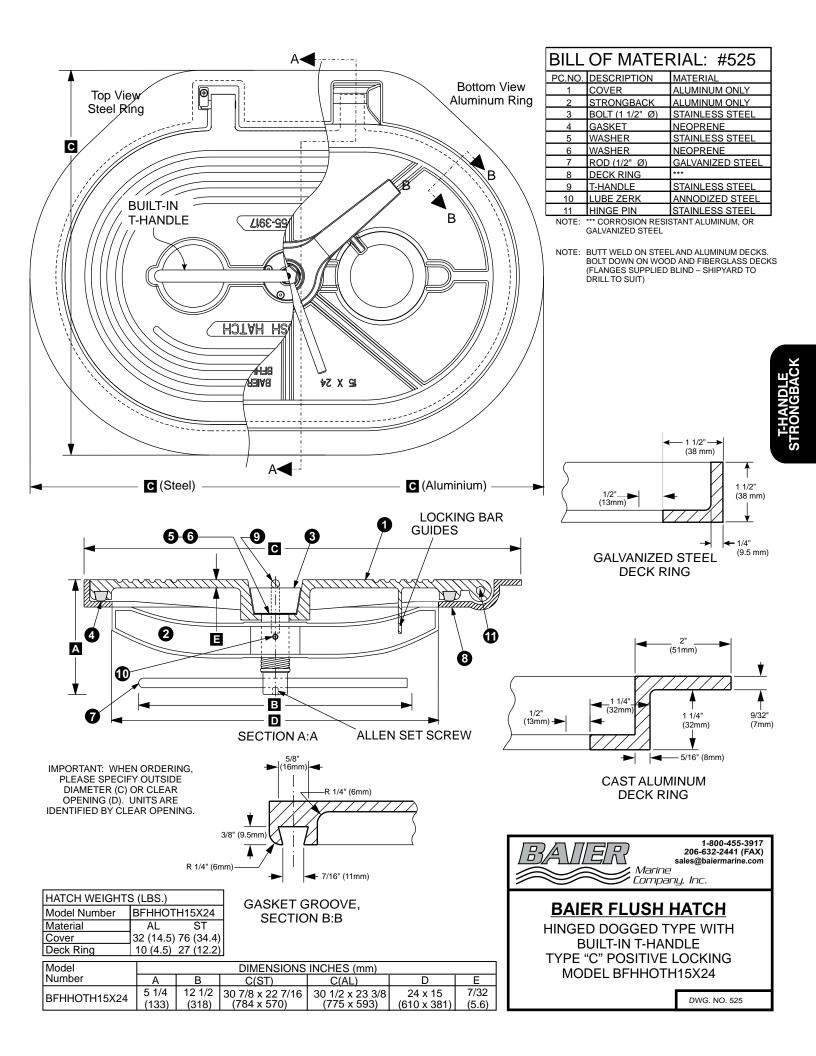
STRENGTH, SIMPLICITY and CONVENIENCE

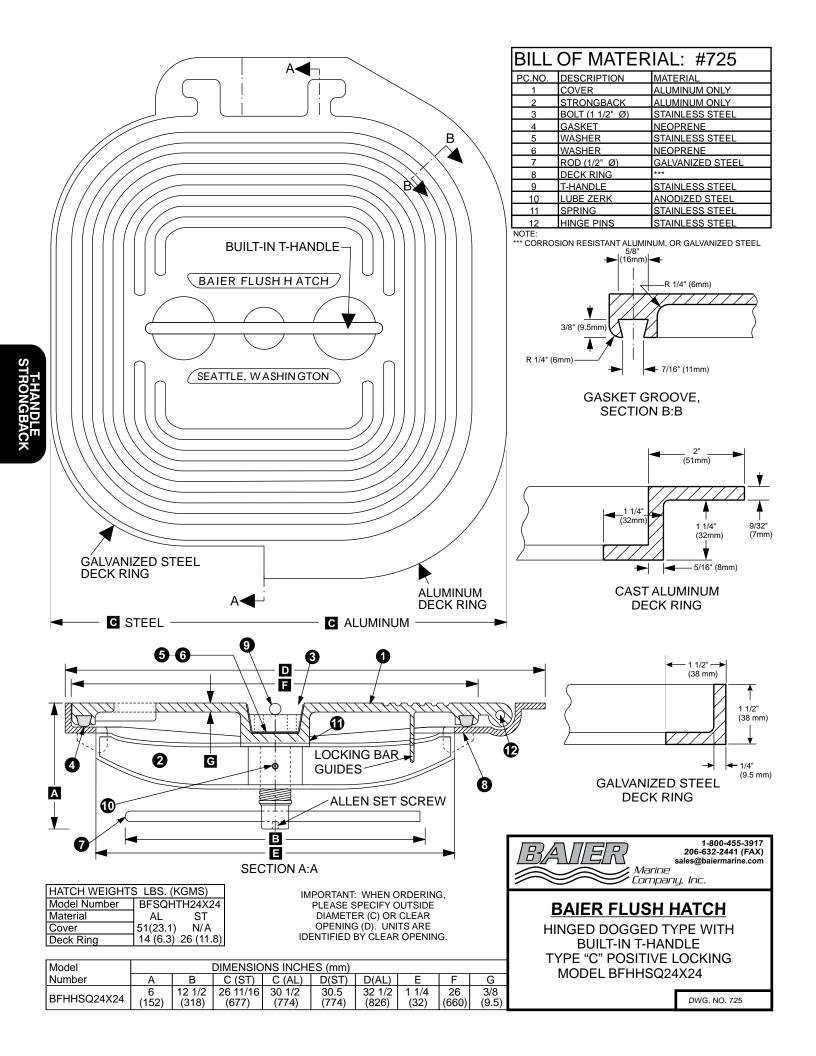
The T-Handle Strongback system has only three moving parts to secure the hatch cover to the deck. Like the Classic HEX it is simple, strong, reliably watertight, infinitely adjustable from topside, and easily serviced (parts are readily available and replaced in the field).

MATERIALS

The T-Handle Strongback hatch cover product line is available only in cast aluminum. The deck rings used are the same as the Classic HEX and are available in galvanized mild steel (for welding into steel decks), or cast aluminum (for welding into aluminum decks or bolting to fiberglass or wood decks). Stainless deck rings are available by special order.

Hatch Model: BFHHOTH15X24 Clear Opening (A): 15" x 24 (381 mm X 610 mm) Cover Dimensions (B): 17" x 26" (432 mm x 660 mm) **Technical Drawing:** #525 BFHHOTH15X24A/A with Cast Aluminum Deck Ring Hatch Model: BFHHSQ24x24 Clear Opening (A): 24" x 24' (610 mm x 610 mm) Cover Dmensions (B): 26" x 26" (660 mm x 660 mm) **Technical Drawing:** #725 BFHHSQ24X24A/S with Galvanized Steel Deck Ring Hatch Covers Available Separately **SINCE 1947** SEATTLE, WA COSTA MESA, CA | 3 Marine www.baiermarine.com Company. Inc. 800-455-3917







Hatches → Deck Fittings

ELVIN MARKED

ATE ->

Quick-Acting 4-Dog Hatch

NEG

QUICK ACTING





BFHQ Series Round - Lift Out Style

These light-weight, quick-acting 4-dog models are ideal for hightraffic closures where speed and ease are paramount, and/or where positive engagement must be visually verifiable at a glance.

DESIGN

Multi-dog "Cam-Lock" positive engagement locking system features:

- Adjustable Dog Tensioners that provide equal tension on all points, ensure a water-tight seal
- Built-in "Never Lose" handle
- A simple 1/8th-turn of the handle provides smooth, easy and secure engagement
- Thicker Dog Arms for superior strength
- Positive visual verification: When the handle is down, the hatch is secured
- Inside escape bar on all units (optional inside turning wheel available)
- Subtle design improvements make the BFHQ stronger, more water-tight than our competitors' similar units

LIGHTWEIGHT BUT STRONG:

- Cast from high-grade corrosion-resistant 356 aluminum alloy (ASTM B26)
- Maximum durability, stronger deck strength and impact resistance
- Stainless steel T-handle and operating hardware
- Dissimilar metals isolated by neoprene and nylon

WATER-TIGHT:

- Machined surfaces and superior casting processes control tolerances
- Neoprene cover gasket and sealing ring ensure tight seal

MATERIALS

Currently, the 4-dog BFHQ series hatch cover assemblies are available only in cast aluminum. However, the deck rings for the BFHQ are the same size as the Strongback models, and are available in galvanized mild steel or cast aluminum. Stainless Steel deck rings are available by special order.



Hatch Model	BFHQTH20	
Clear <mark>(A)</mark>	20" Ø	
Opening	(508 mm) Ø	
Cover <mark>(B)</mark>	22" Ø	
Diameter	(559 mm) Ø	
Technical Drawing	#810	

When ordering, please specify:

Ring Material: cast aluminum or galvanized steel

Hatch Covers Available Separately



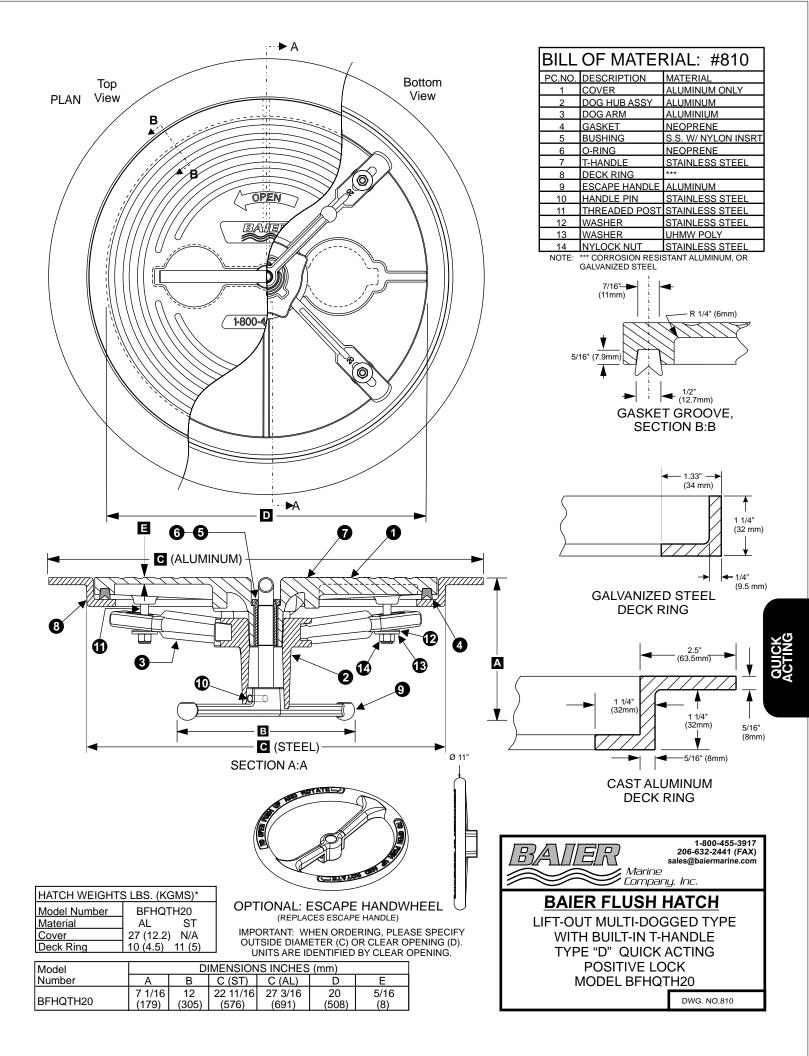
BFHQTH20A/A with Optional Handwheel





BFHQTH20A/A with Cast Aluminum Deck Ring and Standard Turn-bar

SINCE 1947 Marine Company. Inc.	SEATTLE, WA	COSTA MESA, CA
Company. Inc.	800-455-3917	www.baiermarine.com







BFHQ Series Oval - Lift Out Style

These light-weight, quick-acting 4-dog models are ideal for hightraffic closures where speed and ease are paramount, and/or where positive engagement must be visually verifiable at a glance.

DESIGN

Multi-dog "Cam-Lock" positive engagement locking system features:

- Adjustable Dog Tensioners that provide equal tension on all points, ensure a water-tight seal
- Built-in "Never Lose" handle
- A simple 1/8th-turn of the handle provides smooth, easy and secure engagement
- Thicker Dog Arms for superior strength
- Positive visual verification: When the handle is down, the hatch is secured
- Inside escape bar on all units (optional inside turning wheel available)
- Subtle design improvements make the BFHQ stronger, more water-tight than our competitors' similar units
- Replacement Type F model interchangeable with competitor hatches

LIGHTWEIGHT BUT STRONG:

- Cast from high-grade corrosion-resistant 356 aluminum alloy (ASTM B26)
- Maximum durability, stronger deck strength and impact resistance
- Stainless steel T-handle and operating hardware
- Dissimilar metals isolated by neoprene and nylon

WATER-TIGHT:

- Machined surfaces and superior casting processes control tolerances
- · Neoprene cover gasket and sealing ring ensure tight seal

MATERIALS

Currently, the 4-dog BFHQ series hatch cover assemblies are available only in cast aluminum. However, the deck rings for the BFHQ are the same size as the Strongback models, and are available in galvanized mild steel or cast aluminum. Stainless Steel deck rings are available by special order.



BFHQTH15X24A/A with Cast Aluminum Deck Ring and Standard Turn-bar



	· · · · · · · · · · · · · · · · · · ·	
Hatch Model	BFHQTH15x24	
Clear <mark>(A)</mark> Opening	15" x 24" (381 mm x 610 mm)	
Cover <mark>(B)</mark> Dimensions	17" x 26" (432 mm x 660 mm)	
Hatch Model	BFHQTH15x24-F Cover Only - Replacement for Competitive Model	
Cover <mark>(B)</mark> Dimensions	16.88" x 25.75" (429 mm x 654 mm)	
Technical Drawing	#800	

<u>When ordering,</u> please specify:

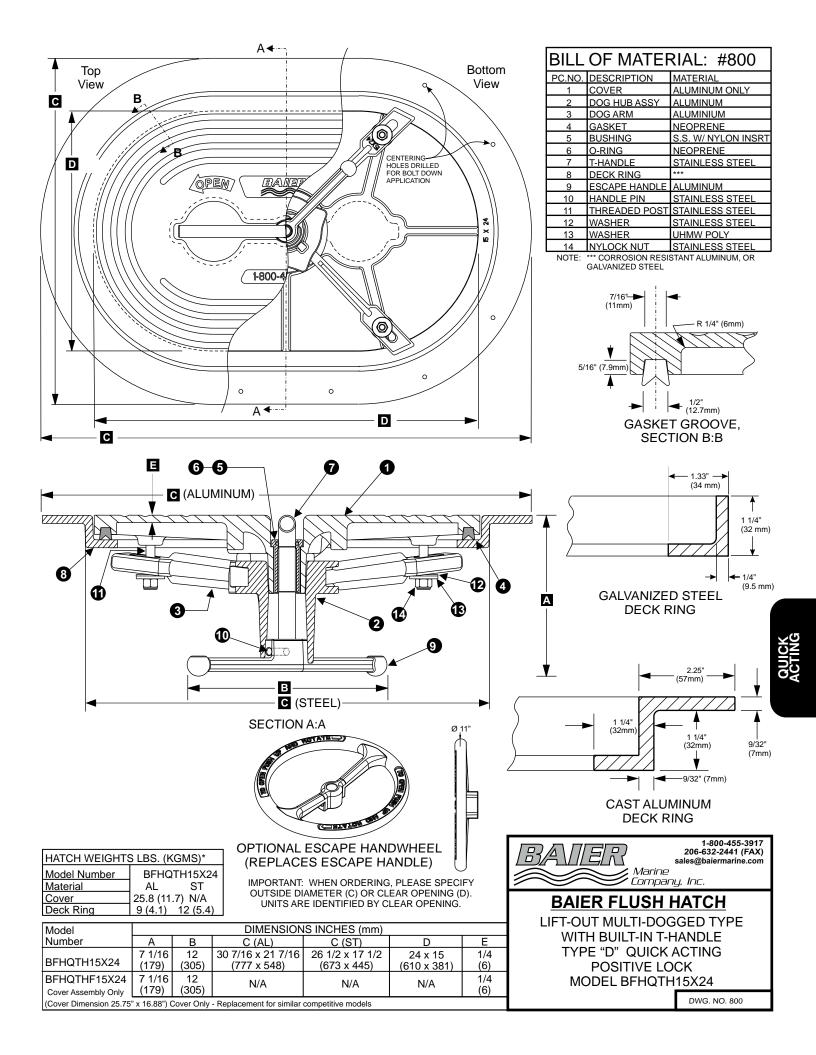
Ring Material: cast aluminum or galvanized steel



Hatch Covers Available Separately

BFHQTH15X24A/A with Optional Handwheel









BFHQ Series Square - Lift Out Style

These light-weight, quick-acting 4-dog models are ideal for hightraffic closures where speed and ease are paramount, and/or where positive engagement must be visually verifiable at a glance.

DESIGN

Multi-dog "Cam-Lock" positive engagement locking system features:

- Adjustable Dog Tensioners that provide equal tension on all points, ensure a water-tight seal
- Built-in "Never Lose" handle
- A simple 1/8th-turn of the handle provides smooth, easy and secure engagement
- Thicker Dog Arms for superior strength
- · Positive visual verification: When the handle is down, the hatch is secured
- Inside escape bar on all units (optional inside turning) wheel available)
- Subtle design improvements make the BFHQ stronger, more water-tight than our competitors' similar units
- Replacement Type F model interchangeable with competitor hatches

LIGHTWEIGHT BUT STRONG:

- Cast from high-grade corrosion-resistant 356 aluminum alloy (ASTM B26)
- Maximum durability, stronger deck strength and impact resistance
- Stainless steel T-handle and operating hardware
- Dissimilar metals isolated by neoprene and nylon

WATER-TIGHT:

- Machined surfaces and superior casting processes control tolerances
- Neoprene cover gasket and sealing ring ensure tight seal

MATERIALS

Currently, the 4-dog BFHQ series hatch cover assemblies are available only in cast aluminum. However, the deck rings for the BFHQ are the same size as the Strongback models, and are available in galvanized mild steel or cast aluminum. Stainless Steel deck rings are available by special order.





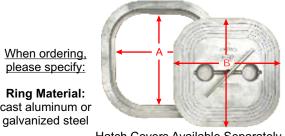
BFHQTH24X24A/A with Cast Aluminum Deck Ring and Standard Turn-bar



Hatch Model	BFHQTH24x24
Clear <mark>(A)</mark>	24" x 24"
Opening	(610 mm x 610 mm)
Cover <mark>(B)</mark>	26" x 26"
Dimensions	(660 mm x 660 mm)
Technical Drawing	#820

When ordering, please specify:

Ring Material:

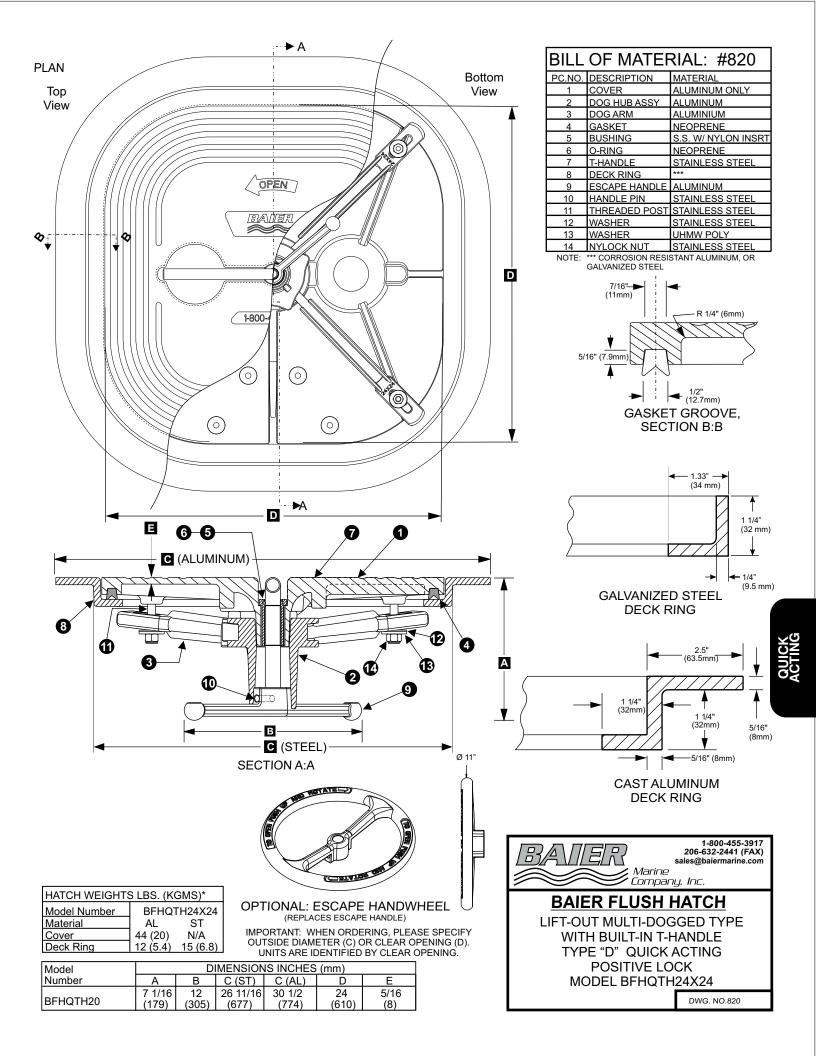


Hatch Covers Available Separately



BFHQTH24X24A/A with Optional Handwheel









COAMINGS

Baier coamings are available in various heights for any of our three lines of flush hatches. Coamings are available for both our lift-out and hinged model hatches. All Comings are fabricated from mild steel, welded to a steel deck ring.

COAMING HEIGHTS

Standard height coamings are: 6" 12" 18" 24" Custom heights available - Please allow 6-10 working days.

Baier stocks steel coamings for the following hatches:

CLASSIC HEX-BOLT STYLE

BFHR14A N/A BFHR16A BFHR16S BFHR18A BFHR18S BHFR20A BFHR20S BFHR24A BFHR24S

BFHHR22A BFHO15X24A

BFHHR22S BFHO15X24S BFHHO15X24A BFHHO15X24S

T-HANDLE STRONGBACK STYLE

BFHRTH8A BFHOTH15X24A BFHRTH20A BFHHOTH15X24A BFHSQ24X24A BFHHSQ24X24A

Steel Cover

QUICK ACTING 4-DOG STYLE

BHFQA15X24A BFHQA20A

STANDARD SIZES:

Several styles and sizes are listed as standard hatch assembly models complete with coaming.

Aluminum Cover

6" Coaming	BCHHR22A/6S	BCHHR22S/6S
12" Coaming	BCHHR22A/12S	BCHHR22S/12S
18" Coaming	BCHHR22A/18S	BCHHR22S/18S
24" Coaming	BCHHR22A/24S	BCHHR22S/24S
-		
6" Coaming	BCHHO15X24A/6S	BCHHO15X24S/6S
12" Coaming	BCHHO15X24A/12S	BCHHO15X24S/12S
12" Coaming 18" Coaming	BCHHO15X24A/12S BCHHO15X24A/18S	BCHHO15X24S/12S BCHHO15X24S/18S





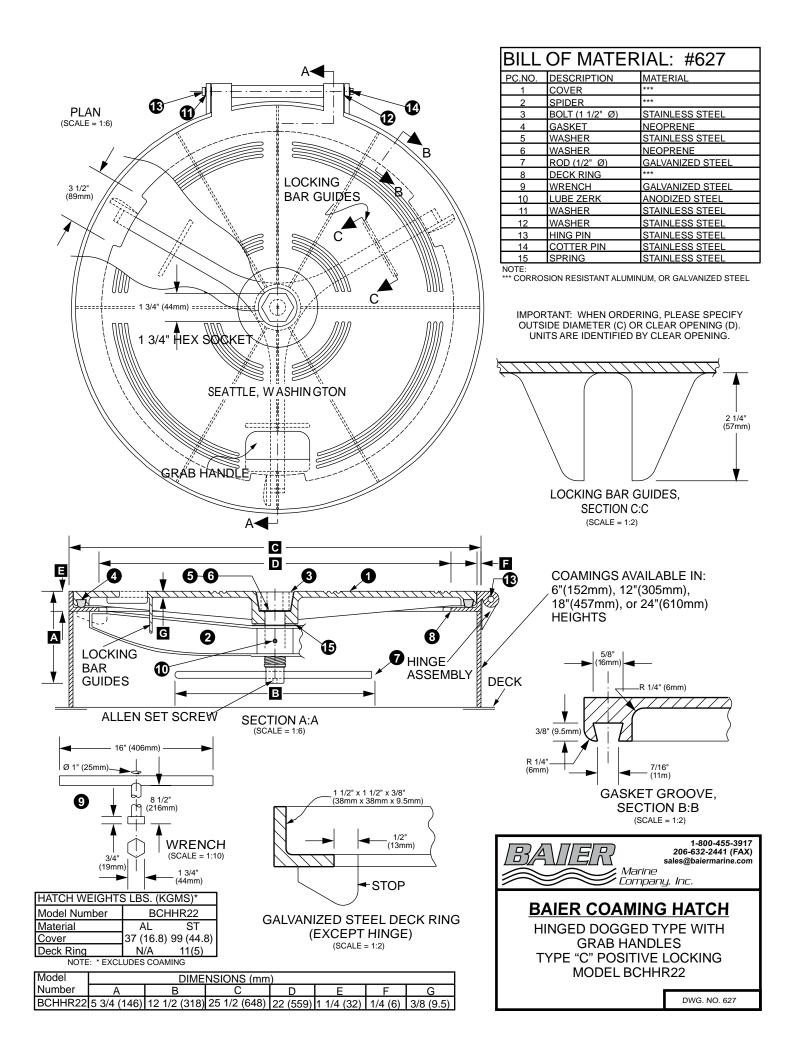


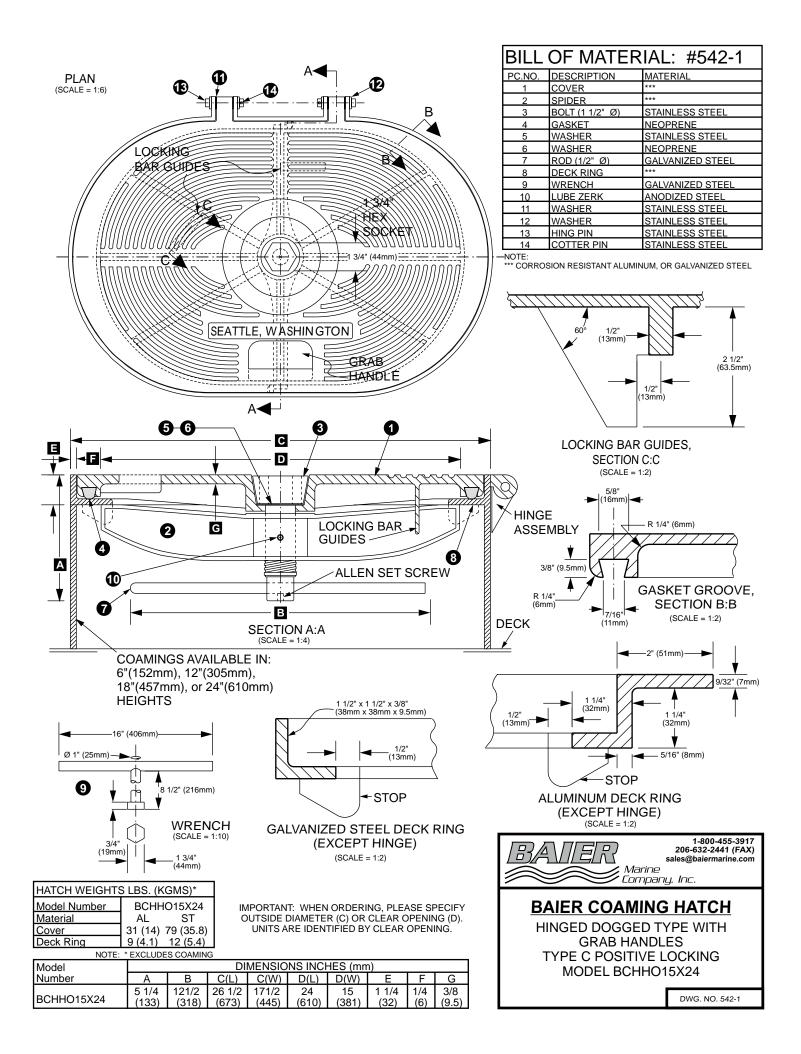




SEATTLE, WA 800-455-3917

COSTA MESA, CA www.baiermarine.com





Baier Marine Company, Inc. WELDING INSTALLATION TIPS FOR FLUSH-HATCH DECK RINGS

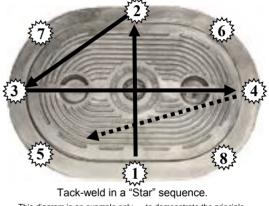
Your **Baier Hatch**, with its unique design, is simple and easily-serviceable. Proper installation will ensure the integrity of the hatch and provide you with long lasting and reliable operation. *Two things we want to prevent are deck-ring cracking and also deck ring distortion*, since these will not allow a positive weather-tight seal.

1. POSITION the HATCH. It is important to install the hatch ring in proper alignment into its location. The ring must remain flat in all applications for the gasket to form a good seal. To find the cut out dimension for your specific hatch, please refer to our catalog and/or scribe your cutout from the actual piece.

2. TACK-WELD the DECK RING in a "STAR" SE-

QUENCE. From below deck, after positioning the ring, uniformly tack-weld the ring to the deck with 1" or shorter welds. These welds *must* be made in the sequence shown here to avoid heat-distortion.

Start your short tack-welds at position #1 (see right). Then tack-weld at position #2 across from #1 . Tack at position #3 and so on. Continue tack welding, <u>as far as</u> <u>possible from the last tack</u> and in the order shown at right. Also see note at bottom: BLANK COVER



This diagram is an example only — to demonstrate the principle. Each size hatch will vary.

Heat build-up caused by weld-filling a gap can cause the ring to distort. Tack-welding, a necessary preliminary step in installation of your hatch, performed correctly, can help achieve optimal results from the final weld and can prevent distortion. Each tack should be 1" or less. Tack-welding is complete when the welds are 6" apart along the entire perimeter of the ring. This alternating spacing is critical to prevent distortion of the ring.

3. SKIP-WELD OUTER EDGE of DECK RING to DECK from topside — also using a "star" pattern with your skip-welds to minimize heat-generated distortion. Fully weld the perimeter of the ring on top using skip welds. Many shops will also completely weld the underside of the deck ring as well to ensure deck integrity.

Further NOTES and TIPS:

- Let ring and deck cool naturally. Do not quench with cool water.
- ALUMINUM RING REPAIR: If aluminum deck ring should crack for any reason, notch out the crack and use ER 4043 MIG welding wire to effect a repair. The ring is cast from ASTM-B26 Alloy 356 aluminum and will not respond well to a harder (e.g. ER 5356) welding wire which you might be using on deck plate.
- BLANK COVER: Some builders will use a "blank" hatch cover with the neoprene outer gasket removed to clamp into the deck ring and keep the ring flatter while it is being tacked into the deck cutout.

If you have further Questions, give Baier a call at 1-800-455-3917

www.baiermarine.com



FLUSH HATCH PRODUCT MATRIX												
	Classic HEX Style			T-Handle St	trongback	QA 4	4 Dog T-Handle Style	Low Pr	Low Profile Style			
	00							0				
	E	No State				C						
CLEAR OPENING DIMENSION	LIFT-OUT	HINGED	ST	RBOLT YLE		BUILT-I	STYLE	LOW-PROFILE STYLE	DECK RING OPTIONS		IS	
OPE DIME	– L-0		CLASS AL	IC HEX ST	STRONGBACK	ST	QA 4-D AL	OG AL	MATERIAL			
OVALS	L-0	HNGD	AL	51	AL	51	AL	AL	/A	/S	/SS	
15 X 24	L-O		BFHO15X24A	BFHO15X24S	BFHOTH15X24A		BFHQTH15X24A	BFHLP15X24A	/A	/S	/SS	
15 X 24		HNGD	BFHHO15X24A	BFHHO15X24S	BFHHOTH15X24A				/A	/S	/SS	
15 X 24		HIDDEN HINGE					BFHHQTH15X24A	< NEW!	/A	/S		
ROUNDS								1				
8	L-0				BFHRTH8A				/A	/S	/SS	
14	L-O		BFHR14A	BFHR14S					/A	/S	/SS	
16	L-0		BFHR16A	BFHR16S					/A	/S	/SS	
18	L-O		BFHR18A	BFHR18S					/A	/S	/SS	
20	L-O		BFHR20A	BFHR20S	BFHRTH20A		BFHQTH20A	BFHLP20A (PLANNED)	/A	/S	/SS	
20		HIDDEN HINGE					BFHHQTH20A	< NEW!	/A	/S		
22		HNGD	BFHHR22A	BFHHR22S					/A	/S		
24	L-0		BFHR24A	BFHR24S					/A	/S	/SS	
SQUARES		-										
24 X 24	L-0				BFHSQ24X24A				/A	/S	/SS	
24 X 24	L-0						BFHQTH24X24A	< NEW! 4-DOG	/A	/S	/SS	
24 X 24		HNGD			BFHHSQ24X24A				/A	/S		
24 X 24		HIDDEN HINGE					BFHHQTH24X24A	< NEW!	/A	/S		

COAMINGS available standard heights: 6' 12" 18" 24"







15x23 20-Bolt Series Oval - Manholes

Baier's complete line of multi-bolt manholes serves as a great inexpensive option for applications where frequent access is not required. Ideal for tank top covers, fuel and water tank access, inspection access to ship voids, barges, sanitary and digester tanks, clean outs and more. These water-tight manholes feature simple designs and utilize high strength steel.

Baier offers a complete line of manholes with configurations and hardware combinations to meet your requirements. These industry-standard manholes are used on workboats, and equipment worldwide. Baier's simply-designed manholes have served the industrial marine and fishing industries for the past 60 years.

FEATURES:

- High strength carbon steel construction
- Hardware combinations of dissimilar metal prevent galling and corrosion (Not available on all models see Manhole Matrix for details)
- High-quality neoprene rubber gaskets ensure water tight seal (oil restant Buna-N Optional)
- Neoprene Gasket material is UV resistant to prevent cracking and memory fatigue
- Flush screw-down models offer a smooth-surfaced manhole that prevents catching and snagging
- Speciality features such as 3" NPT fill points and handles available on some models
- Raised coamings available on certain models (See Coaming Section p. 31)

For more details about all of the manholes available please see the complete feature set matrix available on the technical drawing.



Model: BMHC15X23F - Flush Screw



Model: BMHC15X23S - Weld Stud



Model: BMHC15X23BZ - Weld Bolt, Combo B



Model: BMHC15X23Z - Weld Stud, Combo A



Model: BMHC15X23# - Raised Combing, Combo B See Additional Models on Manhole Matrix. (P. 40)

10" Round Series

The round manholes are also sometimes referred to as clean-out hatches. See the complete line of these round manholes on the technical drawing page and manhole matrix. (P. 40)

Round - Clean-Out Hatches



BAIER	SINCE 1947
	Marine
	Company. Inc.

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15x23 26 Bolt Series Oval - Manholes

26 bolt manholes are another industry standard model offered by Baier Marine. Typically used for specific application of increased air or water pressure. All of our manholes meet the ABS (American Bureau of Shipping) requirements for design and materials.



Model: BMHC15X23#-26 - Flush Screw, 26 Bolt See Additional Models on Manhole Matrix. (p. 40)

18x24 24 Bolt Series Oval - Manholes

The 18" x 24" manholes feature many of the same configuration and hardware combinations featured on the standard size manhole. See the complete line of 18" x 26" manholes on the manhole product matrix. (P. 40)



Model: BMHC18X24#-24 - Weld Bolt, Combo B See Additional Models on Manhole Matrix. (p. 40)

14" & 18" Round Series Round - Clean-Out Hatches

The round manholes are also sometimes referred to as clean-out hatches. These hatches all feature raised coamings available in various heights. See the complete line of these round manholes on the technical drawing page and manhole matrix. (P. 40)

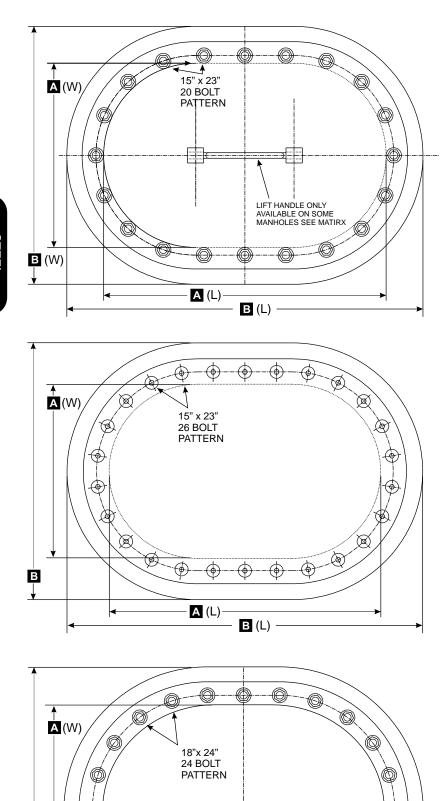


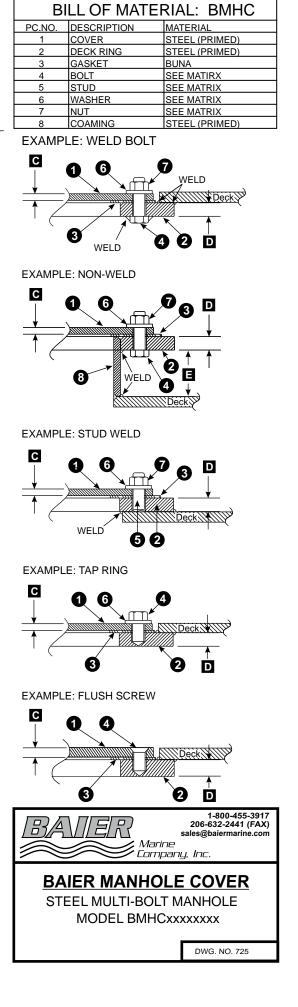


Model: BMHC14 - Raised Combing, Combo A See Additional Models on Manhole Matrix. (p. 40)

FLUSH SCREW WELD BOLT - Combo A RAISED COAMING - Combo A Flush Hex Bolt Reneed Exempto Stalniess Stee faided Colt Bulf: Blainlass Bt apped Warthert Br Stend Ring Brones WELD STUD WELD BOLT - Combo B RAISED COAMING - Combo B Washer: # allaless Steel **Raised Coaming** Mut: Bronze **Bolt: Zinc Plated Steel** d Balt: Steel Washer: B tint Fhish Weiters Stahless Steel Washer: Bro **Nut: Stainless Steel** Nuc: Stalt **SINCE 1947** SEATTLE, WA COSTA MESA, CA BANER Marine www.baiermarine.com 800-455-3917 Company. Inc.

Standard Hardware Configurations





STEEL MANHOLES

В

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A (L)

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B (L)





COSTA MESA, CA

www.baiermarine.com

Manhole Product Matrix

IB/A

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Marine

/ Company. Inc.

BAIER P/N P/N	DRAWING #	MODEL #	BOLT TYPE		BOLT LGNTH		A(L)	B(W)	B(L)	с	D	E	WGHT LBS	BOLT/ STUD	NUT	WSHR	GSKT	HNDL Y/N
15" x 23"	20 Bolt Flush																	
BMHC15X23BZ	02590-101A	UMC-503	WELD BOLT	5/8-11	2.25	15	23	21	29	.393	.787	N/A	95	ZN	SS	BR	BUNA	Y
BMHC15X23DD	02590-103S		TAP RING	5/8-11	1	15	23	21	29	.393	.787	N/A	95	SS		BR	BUNA	N
BMHC15X23BS	02590-105A	UMC-503	WELD BOLT	5/8-11	2.25	15	23	21	29	.393	.787	N/A	95	SS	BR	BR	BUNA	Y
BMHC15X23D	08866-101D		TAP RING	3/4-10	1.375	15	23	21	29	.393	.787	N/A	102	SS		ss	BUNA	N
BMHC15X23F	08866-101F		FLUSH SCREW	1/2-13	.9375	15	23	21	29	.393	.787	N/A	98	ss			BUNA	N
BMHC15X23S	08866-101S		STUD WELD	3/4-10	2.25	15	23	21	29	.393	.787	N/A	104	SS	BR	ss	BUNA	N
15" x 23" w/ 3" NPT	20 Bolt Flush	3" NPT PLUG																
BMHC15X23Z	08866-101Z	RAISED PLUG	STUD WELD	3/4-10	2.25	15	23	21	29	.393	.787	N/A	125	SS	BR	ss	BUNA	N
BMHC15X23Z	08866-101H	FLUSH PLUG	STUD WELD	3/4-10	2.25	15	23	21	29	.393	.787	N/A	125	ss	BR	ss	BUNA	N
15" x 23"	26 Bolt Flush																	
BMHC15X23-26F	02610-101A	UMC-505	FLUSH SCREW	5/8-11	1.25	15	23	22	30	.51	1.125	N/A	160	SS			BUNA	N
BMHC15X23-26D	02590-102SA		TAP RING	5/8-11	1	15	23	21	29	.393	.787	N/A	95	SS		BR	BUNA	N
15" x 23"	20 Bolt Raised																	
BMHC15X23X2.5BZ	02570-101A	UMC-501	NON WELD	5/8-11	1.75	15	23	20	28	.393	.375	2.5	85	ZN	SS	BR	BUNA	N
BMHC15X23X4BS	02570-105A		NON WELD	5/8-11	1.75	15	23	20	28	.393	.375	4	95	ss	BR	BR	BUNA	N
18" x 24"	24 Bolt Flush																	
BMHC18X24BZ	02600-101A	UMC-504	WELD BOLT	5/8-11	2.25	18	24	24	30	.393	.787	N/A	112	ZN	ZN	BR	BUNA	Y
18" x 24"	24 Bolt Raised																	
BMHC18X24X2.5BZ	02580-101A	UMC-502	NON-WELD	5/8-11	1.75	18	24	23	29	.393	.375	2.5	106	ZN	SS	BR	BUNA	N
18" Round	Raised																	
BMHC18BR	08450-101A	UMC-154-18	NON WELD	5/8-11	2	18	18	23	23	.393	.393	2.5	78	ZN	BR		BUNA	N
BMHC18SS-FLAX	08450-101B	UMC-154-18	NON WELD	5/8-11	2	18	18	23	23	.393	.393	2.5	78	ss	SS		FLAX	N
BMHC18SS	08450-102B	UMC-154-18	NON WELD	5/8-11	2	18	18	23	23	.393	.393	2.5	78	ss	SS		NONE	N
BMHC18SS-9	08450-121B	UMC-154-18	NON WELD	5/8-11	2	18	18	23	23	.393	.393	9	85	ss	SS		FLAX	N
14" Round	Raised																	
BMHC14BR	08451-101A	UMC-154-14	NON WELD	5/8-11	2	14	14	19	19	.393	.393	2.5	55	ZN	BR		BUNA	N
BMHC14BR-FLAX	08451-101B	UMC-154-14	NON WELD	5/8-11	2	14	14	19	19	.393	.393	2.5	55	ss	SS		FLAX	N
BMHC14SS	08451-102B	UMC-154-14	NON WELD	5/8-11	2	14	14	19	19	.393	.393	2.5	55	ss	SS		BUNA	N
BMHC14SS-4.5	08451-112B	UMC-154-14	NON WELD	5/8-11	2	14	14	19	19	.393	.393	4	68	ss	SS		BUNA	N
10" Round	12 Bolt Flush																	
BMHC10U	08866-110A		WELD BOLT	5/5-11	2.25	10	10	16	16	.393	.787	N/A	48	SS	BR	ss	BUNA	N

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STEEL AANHOLES





T-Bolt Style Round - 18" & 24 "

This industry standard steel enclosure is based on the proven strongback style hatch and is operated by a single T-handle bolt. It easy operation facilitates its convenient use while maintaining a near flush profile.

Features:

- Made from high strength 3/8" steel for better impact resistance
- No tools required single bolt T-handle for secure engagement
- Stainless steel T-Handle and Brass Thread block uses dissimilar metals to prevent galling and ensure trouble free operation
- Nitrile rubber gaskets ensure water tight design



UMC-430-18 Steel Hatch with Stainless Steel Hardware

HARDWARE: Tee Bolt - Stainless Steel Thread Block - Brass Strongback - Galvanized Steel

Hatch

Model

HATCH MATERIAL: Steel (ASTM A36) Painted Primer Grey

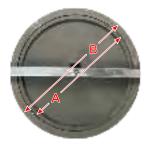
> Gasket - Nitrile Rubber Washer- Brass Hndle Gasket- Nitrile Rubber

Clear (A)

Opening

UMC-430-18 18" (457mm)

UMC-430-24 24" (508mm)



Technical

Drawing

01210-101A

01220-101A

Outside (B)

Diameter

20.75" (527mm)

26.75" (679mm)

Single Bolt Style Round - 20" & 22"

This industry standard steel enclosure is also based on the proven strongback style hatch and is operated by a single 7/8" Stainless steel bolt. The simple design provides a secured hatch and flush deck profile.

Features:

- Made from high strength 3/8" steel for better impact resistance
- 1-5/16" wrench required for single bolt secure engagement
- Stainless steel bolt and steel strongback provide dissimilar metals to prevent galling and ensure trouble free operation
- Nitrile rubber gaskets ensure Water tight design
- Stainless steel chain ensures covers stay attached and never get lost



UMC-301-20 Steel Hatch with Stainless Steel Hardware



Hatch Model	Clear <mark>(A)</mark> Opening	Outside (B) Diameter	Technical Drawing		
UMC-301-20	17.75"(451mm)	20" (508mm)	08380-101A		
UMC-301-22	19.75"(502mm)	22" (559mm)	08381-101A		

HATCH MATERIAL:

Steel (ASTM A36) Painted Primer Grey

HARDWARE:

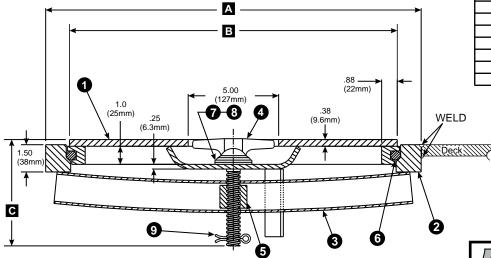
Bolt 7/8-9 -
Chain -Stainless Steel
Stainless SteelHinge Pin -
Cotter Pin -Stainless Steel
Stainless SteelWasher -
Bolt Gasket -Brass



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Company. Inc.	800-455-3917	www.baiermarine.com



BILL	BILL OF MATERIAL: UMC-430						
PC.NO.	DESCRIPTION	MATERIAL					
1	COVER	STEEL					
2	DECK RING	STEEL					
3	STRONGBACK	GALVANIZED STEEL					
4	T-HANDLE	STAINLESS STEEL					
5	NUT SQUARE	BRASS					
6	GASKET	NITRILE RUBBER					
7	WSHER	BRASS					
8	HANDLE GASKET	NITRILE RUBBER					
9	COTTER PIN	STAINLESS					



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mpany, Inc.

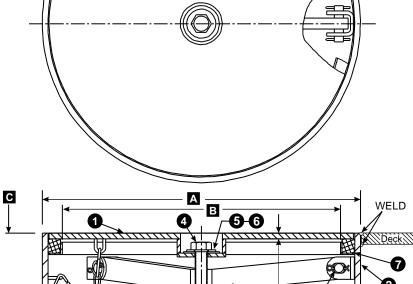
UNIVERSAL FLUSH HATCH SINGLE BOLT T-HANDLE STYLE

18" & 24" ROUGH OPENING MODEL 01210-101A - UMC-430-18 MODEL 01220-101A - UMC-430-24

DWG. NO. UMC-430

Model	Part	DIN	Weight LBS		
Number	Number	A	В	С	(KGS)
UMC-430-18	01210-101A	20.76 (527)	18.13 (460)	5.89 (150)	81 (37)
UMC-430-24	01220-101A	26.76 (679)	24 (610)	5.76 (150)	120 (55)

BILL	BILL OF MATERIAL: UMC-301							
PC.NO.	DESCRIPTION	MATERIAL						
1	COVER	STEEL						
2	COAMING	STEEL						
3	STRONGBACK	STEEL						
4	BOLT 7/8-9	STAINLESS STEEL						
5	WASHER	BRASS						
6	BOLT GASKET	NITRILE RUBBER						
7	GASKET	NITRILE RUBBER						
8	PIN	STEEL						
9	COTTER PIN	STAINLESS						



1-800-455-3917 206-632-2441 (FAX) sales@baiermarine.com Marine Company, Inc.
UNIVERSAL FLUSH HATCH
SINGLE BOLT ROUND MANHOLE 20" & 22" OUTSIDE DIAMETER
MODEL 08380-101A - UMC-301-20 MODEL 08381-101A - UMC-301-22
DWG. NO. UMC-301

•	
1	3 9 3 (9.6MM) (9.6MM) ←

Model	Part	DIM	Weight LBS		
Number	Number	A	В	С	(KGS)
UMC-301-20	08380-101A	20 (508)	17.75 (450)	4 (102)	70 (32)
UMC-301-22	08381-101A	22 (559)	19.75 (502)	4 (102)	75 (34)



Universal Hatches

Twist Lock Style Round - Flush & Coaming

The Twist Lock hatch is a simple proven design for hatch enclosures. The twist engagement method for securing this hatch makes this the simplest hatch to operate. This hatch is made from high strength 3/8" cast steel with reinforced ribs. Built-in Lift-out handles are molded into the cover plate for convenience.

Features:

- · Low cost high strength cast steel construction
- · Lift-out grab handles Molded into cover casting
- Reinforced steel ribs on cover to provide greater impact resistance
- Galvanized steel chain ensures the cover stays attached and will never get lost



UMC-474 Cast Steel Hatch with Cast Steel Deck Ring

Ullage Style Round - 8" & 10"

The Ullage hatch is a strong and secure method of enclosing a tank compartment while still providing easy single bolt operation for inspection or measuring of cargo. Available in 8" and 10" diameters.

Features:

- Low cost high strength cast steel construction.
- Cast Steel and Stainless Steel Dog handles (grease zerks Optional)
- Bronze tumble bolts for corrosion resistance and trouble free operation
- Bolts and nuts made from dissimilar metals to prevent galling and corrosion
- Simple Ullage arm hinge design allows for simple and clear access to port





08380-101A Steel Hatch with Stainless Steel Hardware



Hatch Model	Clear <mark>(A)</mark> Opening	Outside (B) Diameter	Technical Drawing
UMC-474	18.6" (472mm)	24" (610mm)	08640-101A
UMC-474-5*	Available w/ 5" (08641-101A	

HATCH MATERIAL:

Steel (ASTM A36) Painted Primer Grey

HARDWARE:

Gasket - Nitrile Rubber Chain - Galvinzed Steel Coaming* - Steel



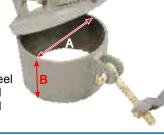
* Coaming Model Not Pictured



Hatch Model	Clear <mark>(A)</mark> Opening	Coaming Height <mark>(B)</mark>	Technical Drawing
UMC-144	8" (203mm)	7/8" (22mm)	01242-102A
UMC-144-5	8" (203mm)	5" (127mm)	01242-104B
UMC-569-5	10" (254mm)	5" (127mm)	01243-101A

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Painted Prime		1-1-
HARDWARE:	4	
Tumble Bolt -	Bronze	Δ
Dog Handle -	Steel	
Ullage Arm -	Steel	1
Bolt 5/8-11 -	Zinc Plated Steel	B
Nut 5-8-11 -	Stainless Steel	1
Washer -	Stainless Steel	
Gasket -	Nitrile Rubber	



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	BILL OF MATERIAL: UMC-474 PC.NO. DESCRIPTION 1 COVER 2 DECK RING 3 GASKET 4 CHAIN 5 COAMING
Vision 24" (607mm) 20" (508mm) 20" (508mm) Coaming 36" Optional 36" Image: Strain of the strain o	1-800-455-3917 206-632-2441 (FAX) sales@baiermarine.com Marine Company, Inc. UNIVERSAL FLUSH HATCH STEEL TWIST LOCK HATCH 24" ROUND OVERALL DAIMETER
UMC-474 08640-101A N/A N/A 85 (39)	MODEL 08640-101A - UMC-474 MODEL 08641-101A - UMC-474-5
UMC-474-5 08641-101A 5" 21.75" 118 (127) (552) (54)	DWG. NO. UMC-474
	BILL OF MATERIAL: UMC-144 PC.NO. DESCRIPTION MATERIAL 1 COVER STEEL 2 COAMING STEEL 3 ULLAGE HANDLE STEEL 4 DOG HANDLE STEEL 5 TUMBLE BOLT BRONZE 6 GASKET NITRILE RUBBER
9	7 BOLT 5/8-11 ZINC PLATED STEEL 8 NUT 5/8-11 STAINLESS STEEL 9 WASHER 5/8 STAINLESS STEEL
DECK BRACKET FOR 5/8" COAMING	8 NUT 5/8-11 STAINLESS STEEL 9 WASHER 5/8 STAINLESS STEEL OPTIONAL FLAME SCREEN FOR 8" Ø & 10" Ø MODELS
	8 NUT 5/8-11 STAINLESS STEEL 9 WASHER 5/8 STAINLESS STEEL





Multi-Dog Style Round - 4 Dog & 3 Dog

Multi-Dog Raised hatches are a strong and secure working enclosure system. They are universally used hardware on all kinds of commercial vessels from small workboats to ocean going cargo ships. Their simple design and quality steel construction help them meet the long range trouble free service requirements in the harshest environments. **Features:**

- · Low cost high strength cast steel construction
- Cast Steel and Stainless Steel Dog handles (available with grease zerks optional)
- Bronze tumble bolts for corrosion resistance and trouble free operation
- Bolts and nuts made from dissimilar metals to prevent galling and corrosion



Hatch Model	Clear <mark>(A)</mark> Opening	Number of Dogs	Technical Drawing
UMC-456-5	12" (305mm)	3 Dog	03410-101A
UMC-343-5	19" (305mm)	4 Dog	01230-101A



HATCH MATERIAL:
Stool (ASTM A36

Steel (ASTM A36) Painted Primer Grey

Bolt 5/8-11 -

Nut 5-8-11 -

Gasket -

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Tumble Bolt - Bronze Dog Handle - Steel

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Zinc Plated Steel

Stainless Steel

Nitrile Rubber

HARDWARE:

Steel (ASTM A36) Painted Primer Grey

HARDWARE:

Tumble Bolt -BronzeDog Handle -SteelBolt 5/8-11 -Zinc Plated SteelNut 5-8-11 -Stainless SteelGasket -Nitrile Rubber



UMC-456-5 Steel Hatch 4-Dog

Multi-Dog Style Oval - 2 Dog & 4 Dog

Multi-Dog Raised hatches are a strong and secure enclosure system. They are universally used hardware on all kinds of commercial vessels.

Features:

- Cast Steel and Stainless Steel dog handles (available with grease zerks optional)
- Bronze tumble bolts for corrosion resistance and trouble free operation
- Bolts and nuts made from dissimilar metals to prevent galling and corrosion



Hatch Model	Clear <mark>(A)</mark> Opening	Number of Dogs	Technical Drawing
UMC-274-5	15" x 23" (381 x 548 mm)	2 Dog	01241-105A
UMC-174-5	15" x 23" (381 x 548 mm)	4 Dog	01240-102A
UMC-464-5	18" x 24" (457 x 609 mm)	4 Dog	03800-101A
HATCH MATE	RIAL:		a

UMC-274-5 Steel Hatch 2-Dog





UMC-46-5 Steel Hatch 4-Dog



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	3 DOG MODEL PLACEMENT	В		4 DOG MODEL PLACEMENT	В	BILL OF MATERIAL: UMC-343 PC.NO. DESCRIPTION MATERIAL 1 COVER STEEL 2 COAMING STEEL 3 DOG HANDLE STEEL 4 TUMBLE BOLT BRASS 5 GASKET NITRILE RUBBER 6 BOLT 5/8-11 ZINC PLATED STEEL 7 NUT 5/8-11 STAINLESS STEEL
1.41" (87mm) ↓ 5" (127mm) ↓			3 	2 (10mm)	- 4 -7	1-800-455-3917 206-632-2441 (FAX) sales@baiermarine.com Marine Company, Inc. UNIVERSAL RAISED HATCH 22" ROUGH OPENING MODEL 02440, 1014 JUNC, 456,5
Model Number UMC-456-5 UMC-343-5	Part Number 03410-101A 01230-101A	DIMENSIONS I A 12" (305) 19" (483)	NCHES (MM) B 13.75" (349) 21" (533)	# OF DOGS 3 DOG 4 DOG	Weight LBS (KGS) 85 (39) 92 (42)	MODEL 03410-101A - UMC-456-5 MODEL 01230-101A - UMC-343-5
			()		()	
		2 DOG M PLACEM				BILL OF MATERIAL: UMC-174 PC.NO. DESCRIPTION MATERIAL 1 COVER STEEL 2 COAMING STEEL 3 DOG HANDLE STEEL 4 TUMBLE BOLT BRASS 5 GASKET NITRILE RUBBER 6 BOLT 5/8-11 ZINC PLATED STEEL 7 NUT 5/8-11 STAINLESS STEEL
B 3.41" (87mm)						PC.NO. DESCRIPTION MATERIAL 1 COVER STEEL 2 COAMING STEEL 3 DOG HANDLE STEEL 4 TUMBLE BOLT BRASS 5 GASKET NITRILE RUBBER 6 BOLT 5/8-11 ZINC PLATED STEEL

UNIVERSAL STEEL HATCH





Multi-Dog Combo Hatch Oval - 4 Dog w/ Ullage

Multi-Dog Raised hatches are a strong and secure working enclosure system. The added Ullage hatch is likewise a strong and secure method of enclosing a tank compartment while still providing easy single-bolt operation for inspection or measuring of cargo.

Features:

- · Low cost high strength cast steel construction
- Cast Steel and Stainless Steel Dog handles (grease zerks optional)
- Bronze tumble bolts for corrosion resistance and trouble free operation
- Bolts and nuts made from dissimilar metals to prevent galling and corrosion



UMC-464-5 Steel Hatch 4-Dog with 8" Ullage Inspection

Α

▲ 3.41"

(87mn

5" (127mm

Model

Number

UMC-464-5/144

0

.38"-

(10mm)

Part

Number

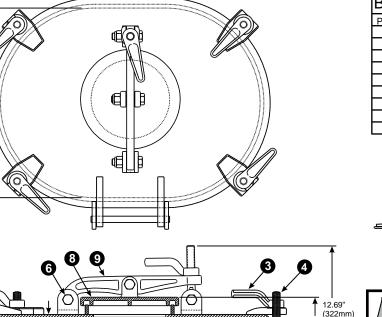
03800-135K

(10mm)

В



Hatch	Clear <mark>(A)</mark>	Number of	Technical
Model	Opening	Dogs	Drawing
UMC-464-5	18" x 24" (457 x 609 mm)	4 Dog	03800-135K
w/144Ullage	Ullage - 7" (178 mm)	1 Dog	
HATCH MATE Steel (AS ⁻ Painted P			
Dog Hand Ullage Arr Bolt 5/8-1	n - Steel I - Zinc Plated Steel - Stainless Steel Stainless Steel	A	



6

0

61

В

24.25" (616)

7"

18.31" (465)

(178mm)

DIMENSIONS INCHES (MM)

(195mm)

Weight LBS

(KGS)

126 (57)

(87mm)

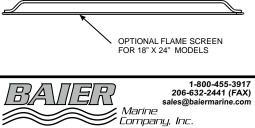
2

OF

DOGS

5 DOG

BILL (BILL OF MATERIAL: UMC-464/144					
PC.NO.	DESCRIPTION	MATERIAL				
1	COVER	STEEL				
2	COAMING	STEEL				
3	DOG HANDLE	STEEL				
4	TUMBLE BOLT	BRASS				
5	GASKET	NITRILE RUBBER				
6	BOLT 5/8-11	ZINC PLATED STEEL				
7	NUT 5/8-11	STAINLESS STEEL				
8	ULLAGE COVER	STEEL				
9	ULLAGE ARM	STEEL				



UNIVERSAL RAISED HATCH MUTI-DOG RAISED HATCH 18"X24" ROUGH OPENING W/ 8" ULLAGE MODEL 03800-135K - UMC-464-5/144

DWG. NO. UMC-174/144



Watertight Door 4-dog Style

Baier's line of Water-tight doors are fabricated from high quality ¼" plate steel. These doors are built to provide continuous trouble-free use on all kinds of industrial marine applications. Various standard sizes are available with alternate handle placement.

MODEL #	DESCRIPTION	PART #	WEIGHT	DIME	ENSIO "A"	NS "B"
UMC-WTD-4D 26x54-R	4-Dog Door 26" x 54" Right Hand	06111-101A	200 lbs	RH	26"	54"
UMC-WTD-4D 26x54-L	4-Dog Door 26" x 54" Left Hand	06111-101B	200 lbs	LH	26"	54"
UMC-WTD-4D 26x60-R	4-Dog Door 26" x 60" Right Hand	06111-101C	220 lbs	RH	26"	60"
UMC-WTD-4D 26x60-L	4-Dog Door 26" x 60" Left Hand	06111-101D	220 lbs	LH	26"	60"
UMC-WTD-4D 30x60-R	4-Dog Door 30" x 60" Right Hand	06111-101E	250 lbs	RH	30"	60"
UMC-WTD-4D 30x60-L	4-Dog Door 30" x 60" Left Hand	06111-101F	250 lbs	LH	30"	60"



UMC-WTD-4D-30X60-R- Right-Handed door

DOOR MATERIAL:

Steel (ASTM A36) Painted Primer Grey

Door handing can be determined by standing on the outside of the compartment with the door swinging toward you. Right-handed doors will have the hinges on the right from this perspective. Conversely, a left-handed door will have the hinges on the left.

Watertight Door 6-dog Style

Baier's line of Water-tight doors are fabricated from high quality ¹/₄" plate steel. These doors are built to provide continuous troublefree use on all kinds of industrial marine applications. Various standard sizes are available with alternate handle placement.

MODEL #	DESCRIPTION	PART #	WEIGHT	DIM	ENSIC "A"	NS "B"
UMC-WTD-6D 26x60-R	6-Dog Door 26" x 60" Right Hand	06121-101C	270 lbs	RH	26"	60"
UMC-WTD-6D 26x60-L	6-Dog Door 26" x 60" Left Hand	06121-101D	270 lbs	LH	26"	60"
UMC-WTD-6D 30x60-R	6-Dog Door 30" x 60" Right Hand	06121-101E	300 lbs	RH	30"	60"
UMC-WTD-6D 30x60-L	6-Dog Door 30" x 60" Left Hand	06121-101F	300 lbs	LH	30"	60"
UMC-WTD-6D 30x66-R	6-Dog Door 30" x 66" Right Hand	06121-101G	330 lbs	RH	30"	66"
UMC-WTD-6D 30x66-L	6-Dog Door 30" x 66" Left Hand	06121-101H	330 lbs	LH	30"	66"
UMC-WTD-6D 30x72-R	6-Dog Door 30" x 72" Right Hand	06121-1011	350 lbs	RH	30"	72"
UMC-WTD-6D 30x72-L	6-Dog Door 30" x 72" Left Hand	06121-101J	350 lbs	LH	30"	72"





UMC-WTD-6D-30X72-R- Right-Handed door

DOOR MATERIAL: Steel (ASTM A36) Painted Primer Grev

Door handing can be determined by standing on the outside of the compartment with the door swinging toward you. Righ-handed doors will have the hinges on the right from this perspective. Conversely a left-handed door will have the hinges on the left.

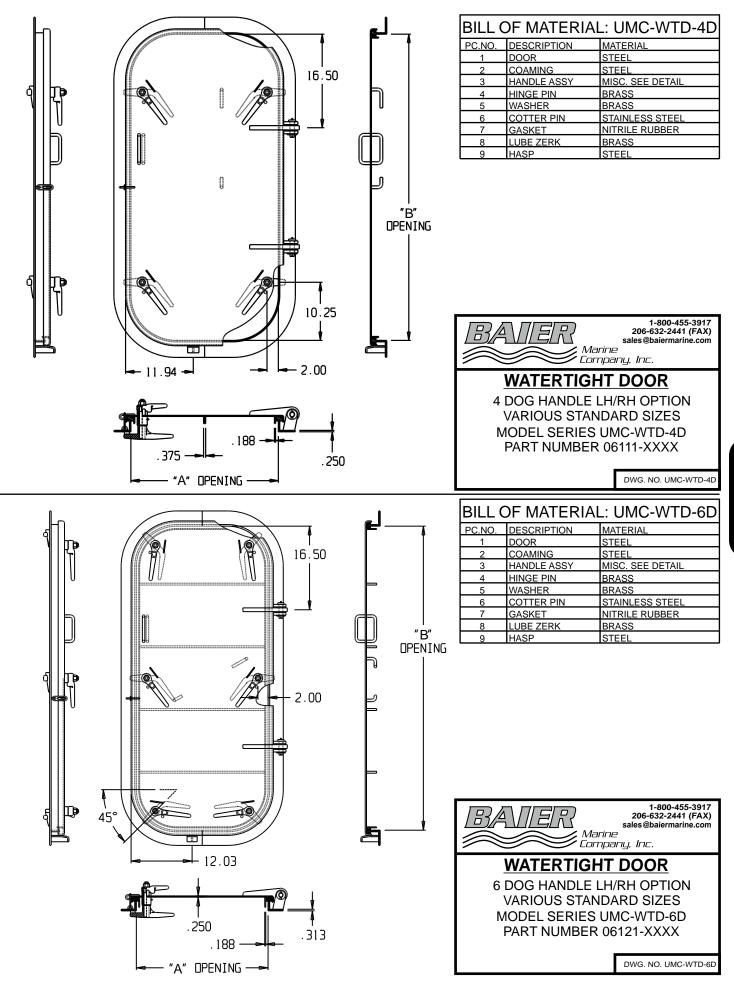
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UNIVERSAL W/T DOOR



Watertight Door Quick Acting Style

Baier's line of Water-tight doors are fabricated from high quality ¼" plate steel. These doors are built to provide continuous trouble-free use on all kinds of industrial marine applications. Various standard sizes are available with alternate handle placement.

MODEL #	DESCRIPTION	PART #	WEIGHT	DIM	ENSIO "A"	NS "B"
UMC-WTD-QA 26x60-R	Quick Acting Door Right Hand 26" x 60"	06122-101C	320 lbs	RH	26"	60"
UMC-WTD-QA 26x60-L	Quick Acting Door Left Hand 26" x 60"	06122-101D	320 lbs	LH	26"	60"
UMC-WTD-QA 30x60-R	Quick Acting Door Right Hand 30" x 60"	06122-101E	350 lbs	RH	30"	60"
UMC-WTD-QA 30x60-L	Quick Acting Door Left Hand 30" x 60"	06122-101F	350lbs	LH	30"	60"
UMC-WTD-QA 30x66-R	Quick Acting Door Right Hand 30" x 66"	06122-101G	385 lbs	RH	30"	66"
UMC-WTD-QA 30x66-L	Quick Acting Door Left Hand 30" x 66"	06122-101H	385 lbs	LH	30"	66"
UMC-WTD-QA 30x72-R	Quick Acting Door Right Hand 30" x 72"	06122-1011	410 lbs	RH	30"	72"
UMC-WTD-QA 30x72-L	Quick Acting Door Left Hand 30" x 72"	06122-101J	410 lbs	LH	30"	72"



UMC-WTD-QA-30X72-R- Right Handed door

DOOR MATERIAL:

Steel (ASTM A36) Painted Primer Grey

Door handing can be determined by standing on the outside of the compartment with the door swinging toward you. Right handed doors will have the hinges on the right from this perspective. Conversely a left handed door will have the hinges on the left.

Handle Assy Steel and Aluminium

Replacement door handles are available in cast steel and cast aluminum. These handles fit all Baier Universal Multi-dog Doors.

PART #

08340-105A

08340-105B

08340-101A

08340-101B

WEIGHT HANDLE

RH

LH

RH

LH

SEATTLE, WA

2.2 lbs

2.2 lbs

6 lbs

6 lbs

800-455-3917

S. UMC-DHR-S		
	UMC-DHL-S	

Door handing can be determined by standing on the outside of the compartment with the door swinging toward you. Right handed doors will have the hinges on the right from this perspective. Conversely a left handed door will have the hinges on the left.

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DESCRIPTION

Handle Assy, Door

Handle Assy, Door

Handle Assy, Door

Handle Assy, Door

Left Hand Steel

Right Hand Steel

Left Hand Aluminum

Right Hand Aluminum



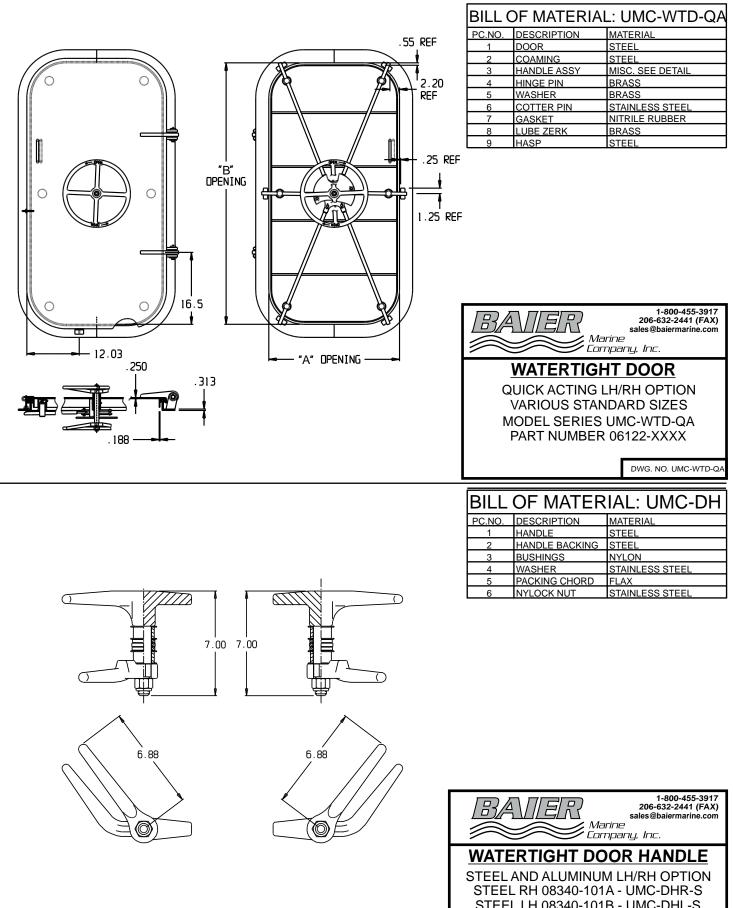
MODEL #

UMC-DHR-A

UMC-DHL-A

UMC-DHR-S

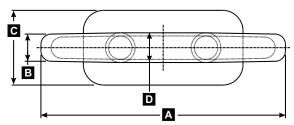
UMC-DHL-S

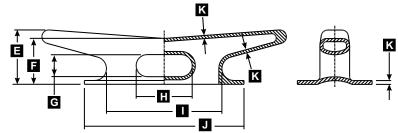


STEEL RH 08340-101A - UMC-DHR-S STEEL LH 08340-101B - UMC-DHL-S ALUMINIUM RH 08340-105A - UMC-DHR-A ALUMINIUM LH 08340-105B - UMC-DHL-A JNIVERSAL



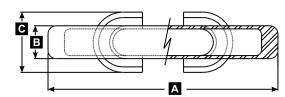
Kevel Chocks ASTM A27-70-36 Cast Steel



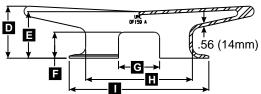


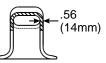
MODEL	DESCRIPTION	PART #				DIMEN	ISIONS	IN INC	HES (N	IM)				LBS
			Α	В	С	D	E	F	G	Н	I	J	Κ	(KGS)
UMC-30	KEVEL CHOCK, 24"	02990-301A	24" (610)	3" (76)	7.5" (190)	4" (101)	5.63" (143)	5.13" (130)	2.25" (57)	3.25" (83)	9" (229)	10.5" (267)	.5" (13)	50 (23)
UMC-KC30	KEVEL CHOCK, 30"	01081-301A	30" (762)	3.25" (83)	9.5" (241)	4" (101)	7" (178)	5.62" (143)	2.38" (60)	6.88" (175)	14" (356)	20.25" (514)	.5" (127)	75 (34)
UMC-482	KEVEL CHOCK, 36"	01080-301A	36" (914)	4" (101)	11" (279)	5" (127)	8" (203)	6.75" (171)	3.25" (83)	8.25" (210)	17" (432)	23.5" (572)	.56" (127)	98 (44)
UMC-483	KEVEL CHOCK, 42"	01090-301A	42" (1066)	4.75" (121)	12.5" (318)	6" (152)	9" (229)	7.88" (200)	4.13" (104)	9.63" (245)	20" (508)	26.75" (679)	.53" (13)	168 (76)
UMC-484	KEVEL CHOCK, 48"	01100-301A	48" (1219)	5.5" (140)	14" (356)	7" (178)	10" (254)	9" (229)	5" (127)	11" (279)	23" (584)	30" (762)	.65" (17)	220 (100)

Large Kevels ASTM A27-70-36 Cast Steel



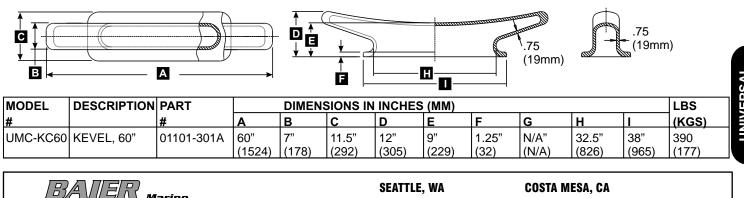
Marine Company.





MODEL	DESCRIPTION	PART #		DIMEN	SIONS IN	N INCHES	S (MM)					LBS
			Α	В	С	D	Ε	F	G	H	Ι	(KGS)
UMC-48A	KEVEL, 36"	01050-301A	36" (914)	5" (127)	10" (254)	7.13" (181)	5.88" (149)	3.5" (89)	5" (127)	16.5" (419)	22.5 (572)	81 (37)
UMC-36A	KEVEL, 42"	01060-301A	42" (1067)	6" (152)	11" (279)	7.5" (191)	6.5" (165)	3.25" (83)	7.5" (191)	19.5" (495)	25.5" (648)	114 (52)
UMC-159A	KEVEL, 48"	01070-301A	48" (1219)	6.5" (165)	11" (279)	10" (254)	8.75" (222)	5" (127)	8" (203)	21" (533)	27" (686)	175 (79)

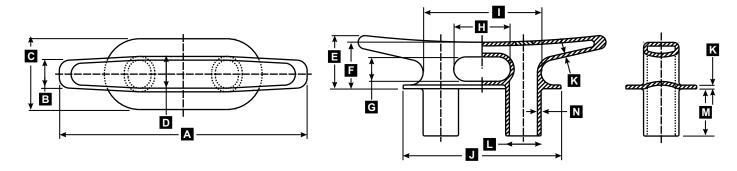
X-Large Kevels ASTM A27-70-36 Cast Steel



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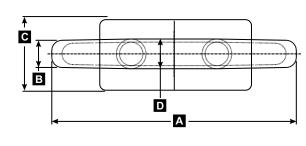


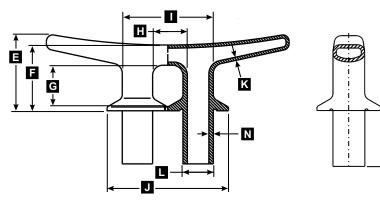
Kevel Chock, 42" Thru deck ASTM A27-70-36 Cast Steel



MODEL	DESCRIPTION	PART	#				DIME	SION	s in in	CHES	(MM)					LBS
		Α	В	С	D	E	F	G	Н	I	J	Κ	L	М	Ν	(KGS)
	Kevel Chock 42" THRU DECK	42" (1067)	4.75	12" (305)	6" (152)	9" (229)		-	9.63 (245)	20" (508)	26.75" (679)	.63" (16)	6" Ø (152)	8" (203)	.63" (16)	220 (99.7)

Kevel Chock, 48" Thru deck ASTM A27-70-36 Cast Steel





MODEL	DESCRIPTION	PART	#				DIME	SION	s in in	CHES	(MM)					LBS
		Α	В	С	D	E	F	G	Н		J	K	L	М	Ν	(KGS)
01102-301A	Kevel Chock 48"	48"	6"	12"	6"	15"	13"	8.25"	6"	18"	24"	.63"	6" Ø	10.5"	.875"	380
	THRU DECK	(1219)	(152)	(305)	(152)	(381)	(330)	(210)	(152)	(457)	(607)	(16)	(152)	(267)	(22)	(172)



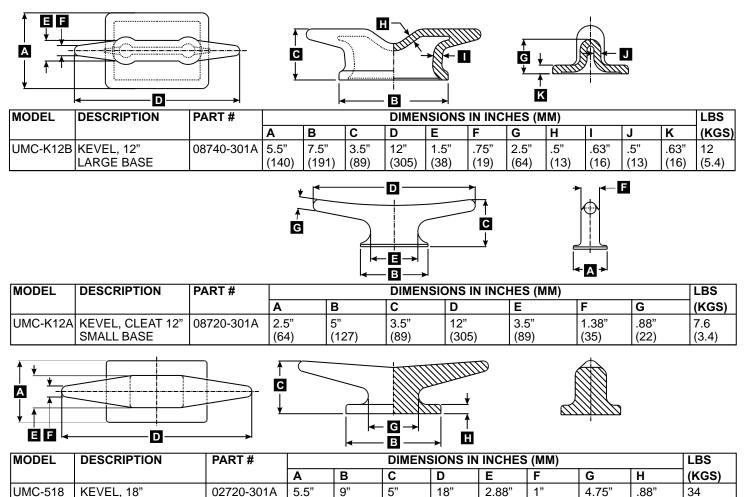
BAVER Marine Company. Inc.	800-45
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Small Kevels ASTM A27-70-36 Cast Steel



Button Chocks ASTM A27-70-36 Cast Steel

(140)

2904)

(127)

(457)

(73)

(25)

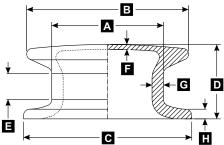
(121)

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Marine

Company. Inc.

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MODEL	DESCRIPTION	PART #			DIMEN	SIONS IN	INCHES	(MM)			LBS	
			Α	В	С	D	E	F	G	H	(KGS)	
UMC-192	BUTTON CHOCK, 6"	01160-301A	6" Ø (152)	8.5" Ø (216)	12" Ø (305)	4.13" (181)	1.13" R (105)	.75" (89)	.75" (19)	.52" (13)	38 (17)	V O C
UMC-473	BUTTON CHOCK, 8"	01180-301A	8.6" Ø (218)	12.5" Ø (318)	13" Ø (330)	5.75" (146)	2" (51)	.38" (10)	.88" (22)	.75" (19)	75 (34)	
UMC-185	BUTTON CHOCK, 10"	01170-301A	10" Ø (254)	15" Ø (381)	17" Ø (432)	8.5" (216)	N/A (N/A)	.5" (13)	1" (25)	.63" (16)	144 (65)	ľ

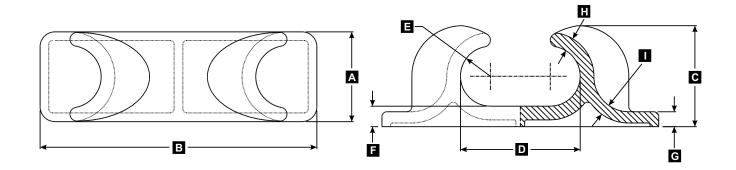
800-455-3917

SEATTLE, WA



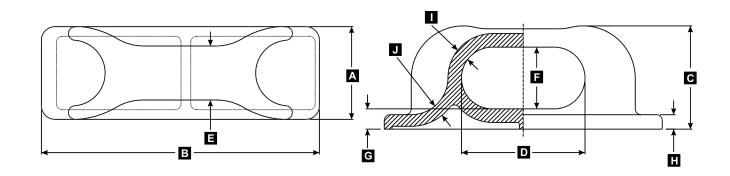


Open Chocks ASTM A27-70-36 Cast Steel



MODEL	DESCRIPTION	PART #		DIMENSIONS IN INCHES (MM)										
			Α	В	С	D	E	F	G	Н	1	(KGS)		
UMC-485	OPEN CHOCK, 9"	07870-301A	9" (229)	27.75" (705)	10.13" (257)	12" (305)	3" R (76)	2.06" (52)	1.5" (38)	1.375" (35)	1.125" (29)	176 (80)		
UMC-489	OPEN CHOCK, 12"	06242-301A	12" (305)	36" (914)	13.38" (340)	16" (406)	4" R (101)	2.63" (67)	2.63" (67)	1.75" (44)	1.5" (38)	435 (197)		

Closed Chocks ASTM A27-70-36 Cast Steel



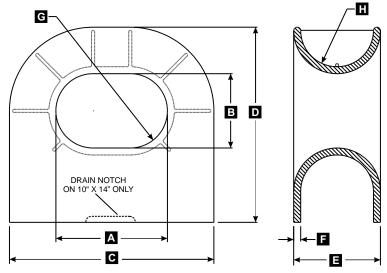
	MODEL	DESCRIPTION	PART #	DIMENSIONS IN INCHES (MM)										LBS
				Α	В	С	D	E	F	G	Н	I	J	(KGS)
	UMC-480	CLOSED CHOCK, 9"	04610-301A	9" (229)	27.75" (705)	10.13" (257)	12" (305)	5.25" (133)	6" (152)		1.5" (38)	1.375" (35)	1.125" (29)	176 (80)
FITS	UMC-490	CLOSED CHOCK, 12"	06240-301A	12" (305)	36" (914)	13.38" (340)	16" (406)	7" (178)	8" (203)	2.63" (67)	1.88" (48)	1.75" (44)	1.5" (38)	455 (206)
	UMC-14	CLOSED CHOCK, 14"	06241-301A	14" (356)	42" (1066)	15.63" (397)	18.75" (476)	8.17" (208)	9.38" (239)	3.06" (78)	2.19" (56)	2" (51)	1.75" (44)	725 (329)

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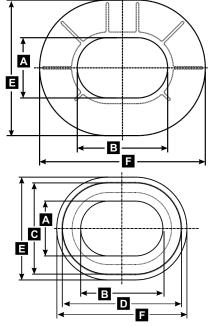


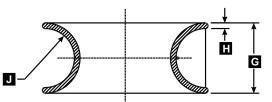
Panama Chocks ASTM A27-70-36 Cast Steel



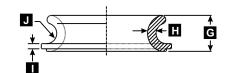
MODEL	DESCRIPTION	PART #		DIMENSIONS IN INCHES (MM)								
			Α	В	С	D	Ε	F	G	Н	(KGS)	
UMC-1014	PANAMA CHOCK,10"X14"	08370-301A	10" (152)	14" (210)	28" (305)	27.25" (181)	14" (105)	.75" (89)	5" R (19)	5.5" R (13)	335 (17)	
UMC-1218	PANAMA CHOCK,12"X18"	08372-301A	12" (218)	18" (318)	33" Ø (330)	31.5" (146)	14" (51)	1.13" (10)	6" R (22)	5.88" R (19)	583 (34)	

Mooring Eyes ASTM A27-70-36 Cast Steel





UMC-1218E - Mooring Eye 12" x 18"



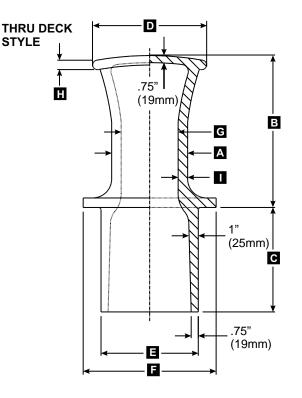
UMC-M812 - Mooring Eye 8" x 12"

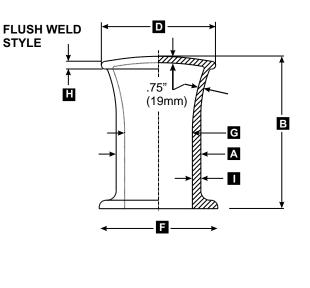
MODEL	DESCRIPTION	PART #				DIMEN	ISIONS	IN INC	HES (N	/M)			LBS	Ş
			Α	В	С	D	E	F	G	Н	I	J	(KGS	
UMC-1218E	MOORING EYE 12X18"	08371-301A	12" (229)	18" (705)	N/A	N/A	27" (133)	33" (152)	14" (52)	1.13" (38)	N/A	5.88" R (29)	467 (80)	NIVF
UMC-M812	MOORING EYE 8X12"	08750-301A	8" (305)	12" (914)	13.31" (340)	19" (483)	15" (178)	17.5" (203)	5.25" (67)	1.25" (48)	.75" (44)	1.5" R (38)	102 (206)	

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Single Bitts ASTM A27-70-36 Cast Steel

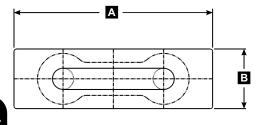


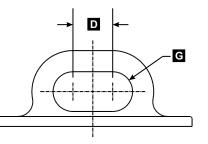


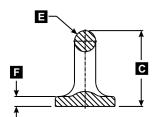
MODEL	DESCRIPTION	STYLE	PART #			DIMEN	ISIONS	IN INCHE	ES (MN	1)			LBS
				Α	В	С	D	E	F	G	Н	I	(KGS)
UMC-492	SINGLE BITT 8" SQUARE BASE	THRU DECK HEAVY DUTY	03720-301A	8" Ø (203)	21" (533)	12" (305)	12" Ø (305)	9.63" Ø (245)	14" (356)	5" Ø (127)	1" (25)	1.5" (38)	370 (168)
UMC-530	SINGLE BITT 8" ROUND BASE	THRU DECK	08000-301B	8" Ø (203)	16" (406)	11" (279)	12" Ø (305)	10.25ӯ (260)	14" Ø (356)	6" (152)	1" (25)	1" (25)	260 (117)
UMC-SB10-T	SINGLE BITT 10" ROUND BASE	THRU DECK	01142-301A	10" Ø (254)	18" (457)	12" (305)	13.5ӯ (343)	10" Ø (254)	14" Ø (356)	8" (203)	1.46" (37)	1" (25)	293 (132)
UMC-SB10	SINGLE BITT 10" ROUND BASE	FLUSH WLD	01140-301A	10" Ø (254)	18" (457)	N/A	13.5ӯ (343)	N/A	14" Ø (356)	8" (203)	1.46" (37)	1" (25)	190 (86)

D-Rings

ASTM A27-70-36 Cast Steel







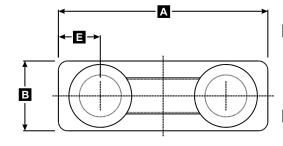
		I I]	Ť	(11111)		<u>r</u>		
Ŧ	MODEL	DESCRIPTION	PART #	DIMENSIONS IN INCHES (MM) WEIGHT									
-IS				Α	В	С	D	E	F	G			
NG	UMC-196	D-RING	01190-301A	20"	6"	7.63"	4"	2.13" Ø	1"	2" R		60	
				(508)	(152)	(194)	(102)	(54)	(25)	(51)		(27)	

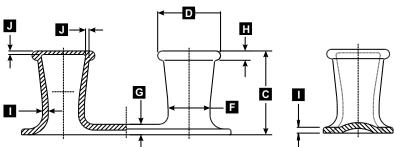
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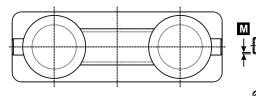


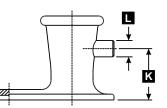
Double Bitts ASTM A27-70-36 Cast Steel





MODEL	DESCRIPTION	PART #		DIMENSIONS IN INCHES (MM)									LBS
			Α	В	С	D	E	F	G	Н	I	J	(KGS)
UMC-2	DOUBLE BITT 8"	01110-301A	40" (1016)	14" (336)	16" (406)	11" Ø (279)	8" (203)	7" Ø (177)	2" (51)	2" (51)	1.25" (32)	.72" (18)	320 (145)
UMC-40	DOUBLE BITT 10"	01120-301A	45" (1143)	15" (381)	18" (457)	13.5ӯ (343)	9" (228)	9" Ø (228)	2.25" (57)	2" (51)	1.25" (32)	.75" R (19)	574 (260)



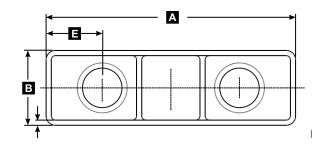


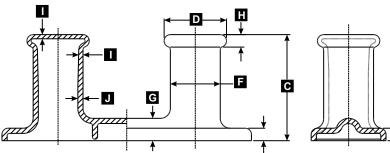


DOUBLE BITTS WITH HORNS

MODEL	DESCRIPTION	PART #	DIMENSIONS IN INCHES (MM)						
				K	L	М	(KGS)		
UMC-2A	DOUBLE BITT 8" WITH HORNS	04200-301A	SEE DIMENSIONS FOR UMC-2 ABOVE	10" (254)	3.5" Ø (89)	.3" (8)	331 (150)		
UMC-40A	DOUBLE BITT 10" WITH HORNS	03760-301A	SEE DIMENSIONS FOR UMC-40 ABOVE	11" (279)	3.5" Ø (89)	.3" (8)	579 (262)		

Large Double Bitt ASTM A27-70-36 Cast Steel





MODEL	DESCRIPTION	PART #		DIMENSIONS IN INCHES (MM)										LBS
			Α	В	С	D	E	F	G	Н	1	J	K	(KGS)
UMC-491	DOUBLE BITT 12"	05970-301A	60" (1524)	18" (457)	25.5" (647)	15" Ø (381)	13.5" (343)	12" Ø (305)	5.4" (137)	3" (83)	1" (25)	1.25" (32)	3" (76)	1045 (474)
UMC-14	DOUBLE BITT 14"	01121-301A	66" (1676)	21" (533)	26.25" (667)	17.5ӯ (445)	13" (343)	14" Ø (356)	5.7" (145)	3.5" (89)	1" (25)	1.5" (38)	3.5" (89)	1596 (724)

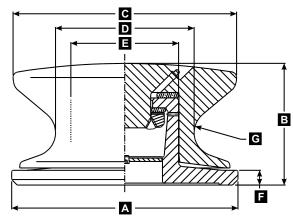
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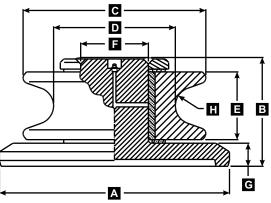




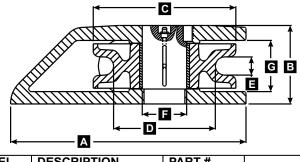
Roller Buttons ASTM A27-70-36 Cast Steel

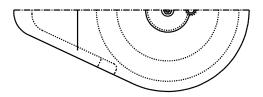


MODEL	DESCRIPTION	PART #			DIMENS	ONS IN I	NCHES (MM)		LBS
			Α	В	С	D	Е	F	G	(KGS)
UMC-50	ROLLER BUTTON, WELDED 11"	08670-152A	12.5" Ø (317)	5.29" (134)	11" Ø (279)	8" Ø (203)	5.5" Ø (138)	1" (25)	.78" R (20)	100 (45)
UMC-75	ROLLER BUTTON, WELDED 12.5"	08671-152A	16.65" Ø (423)	6.8" (173)	12.5" Ø (316)	7.75" Ø (197)	6" Ø (152)	.83" (21)		136 (62)
UMC-100	ROLLER BUTTON, WELDED 15.5"	08672-152A	14.86" Ø (377)	7.88" (200)	15" Ø (381)	9.25" Ø (235)	7" Ø (178)	1" (25)	1.56" R (40)	235 (107)



MODEL	DESCRIPTION	PART #	DIMENSIONS IN INCHES (MM)								LBS
			Α	В	C	D	E	F	G	Н	(KGS)
UMC-1048	ROLLER BUTTON WELDED	08674-101A	17" Ø (432)	8.03" (204)	13.5" Ø (343)	9" Ø (229)	5" (127)	5" Ø (127)	1.7" (43)	1.38" R (35)	250 (113)





		——A——————————————————————————————————									
<u>н</u> н	MODEL	_ DESCRIPTION PART # DIMENSIONS IN INCHES (MM) LBS							LBS		
₹ SE				Α	В	С	D	Е	F	G	(KGS)
NG	UMC-927	ROLLER CHOCK	08830-101A	13" (330)	4.33" (109)	7.88" Ø (194)	5.63" Ø (143)	1" (25)	2.44" Ø (62)	2.83" (72)	50 (23)

BAVER Marina	SEATTLE, WA	COSTA MESA, CA		
Company. Inc.	800-455-3917		www.baiermarine.com	







BFHR18S - Steel Cover with Steel Strongback and Stainless Steel Center Bolt





BFHO15x24S/S - Steel Hatch Assembly with Steel Deck Ring



BFHHR22S/S - Hinged Steel Hatch Assembly with Steel Deck Ring







BFHHO15x24S/S - Hinged Steel Hatch Assembly with Steel Deck Ring

Model Clear Technical **Cover Weight Deck Ring Weight** Number Opening Drawing Lbs (Kgs) Lbs (Kgs) 16" (406mm) 56 (25.4) 9 (4.1) BFHR16S #286-1 Round 18" (457mm) 68(30.8) 10 (4.5) BFHR18S #286-1 Lift Out 20" (508mm) 81 (36.7) 11 (5) BFHR20S #286-1 BFHR24S 24" (610mm) 127 (57.5) 15 (6.8) #630 Round **BFHHR22S** 22" (559mm) #625 99 (44.8) 27 (12.2) Hinged 15"x24" Oval 79 (35.8) BFHO15X24S 12 (5.4) #541 (381mm x 521mm) Lift Out 15"x24" Oval 76 (34.4) BFHHO15x24S #543-1 27 (12.2) (381mm x 521mm) Hinged



BAIER'S EXCLUSIVE STEEL HATCH

Baier is the only manufacturer of quality cast steel flush hatches (versus iron hatches). Many of the Baier's complete line of round and oval lift-out and hinged flush hatches are available in Grade 7036 ASTM A27 cast steel alloy and **hotdip galvanized** for corrosion resistance. Cast stainless steel hatches are available on a special order basis. Coamings are available in a wide array of heights. (See Coaming Section p. 31)

STEEL IS MORE DURABLE THAN IRON

Steel hatches have up to 300% greater impact resistance, energy absorption, and ductility versus iron (especially at low temperatures). Simply stated, a steel hatch can take considerably more.

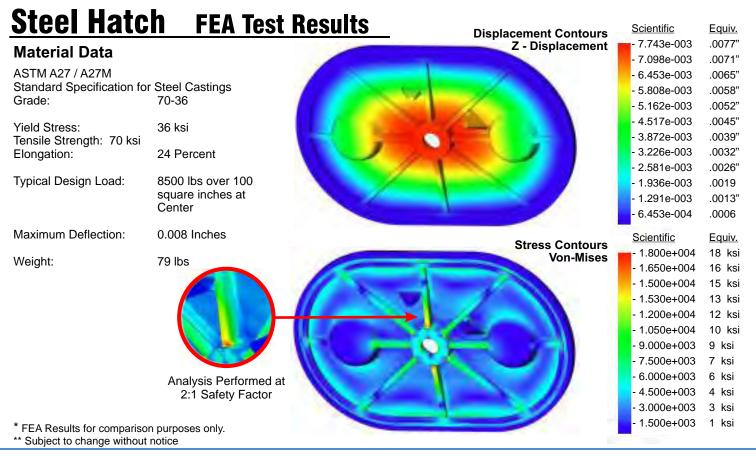
APPLICATIONS

The Baier Steel Hatch was originally designed for King Crab fishing vessels operating in the cold climes of Alaska. Because of its superior strength in frozen operating conditions, no other hatch is better suited than the Baier Steel Hatch for this purpose.

In addition, the steel hatch is used on vehicle traffic areas of ferries (see Strength Test Results of the 15" x 24" (381mm x 610mm) steel hatch, and any other applications requiring unparallel strength, deflection, and load requirements.

Aluminum hatches can be replaced with Baier Steel Hatches for those applications where greater strength is required for any reason. The benefit is obvious - *A steel hatch will last a lifetime.*

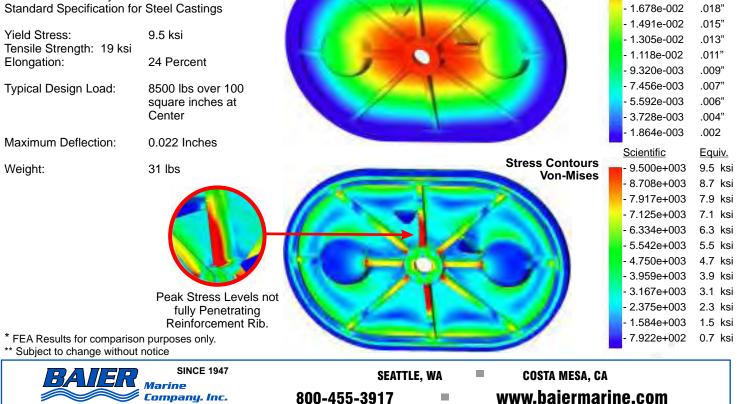




Aluminum Hatch **FEA Test Results**

Material Data

ASTM A26 356 Alloy Standard Specification for Steel Castings



Scientific

2.237e-002

2.050e-002

- 1.864e-002

Displacement Contours

Z - Displacement

Equiv.

.022"

.021"

.019"