

Dock Hardware Catalog



TIE DOWN ENGINEERING
Atlanta, Georgia



In 1969 a devastating hurricane forced the state of Florida to look for a better solution to anchor down manufactured houses. Chuck MacKarvich found the answer, and Tie Down Manufacturing was born in his garage.

Over 80 patents and 7,000 products later, Chuck continues to lead one of America's leading contract and custom manufacturers. Today, Tie Down Engineering operates with the same tenacity, commitment to excellence and customer service that launched this journey almost 50 years ago.

We've been expanding ever since and now develop engineered solutions across six main divisions: Manufactured Housing, OEM Trailer, Marine, Roofing, Cable & Hardware and Custom Manufacturing.

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ISO 9001:2008 Certified Company

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DOCK SYSTEM

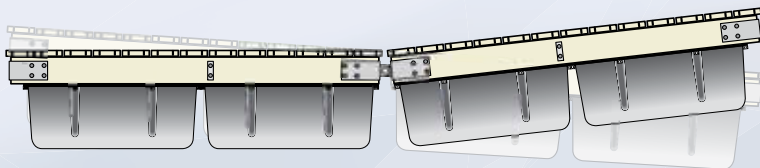
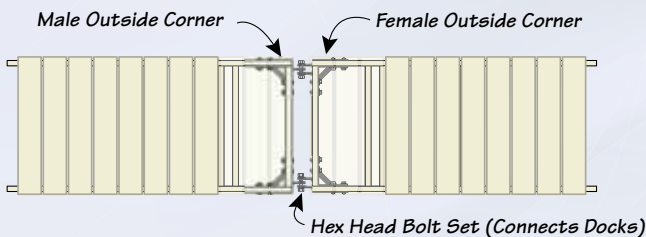
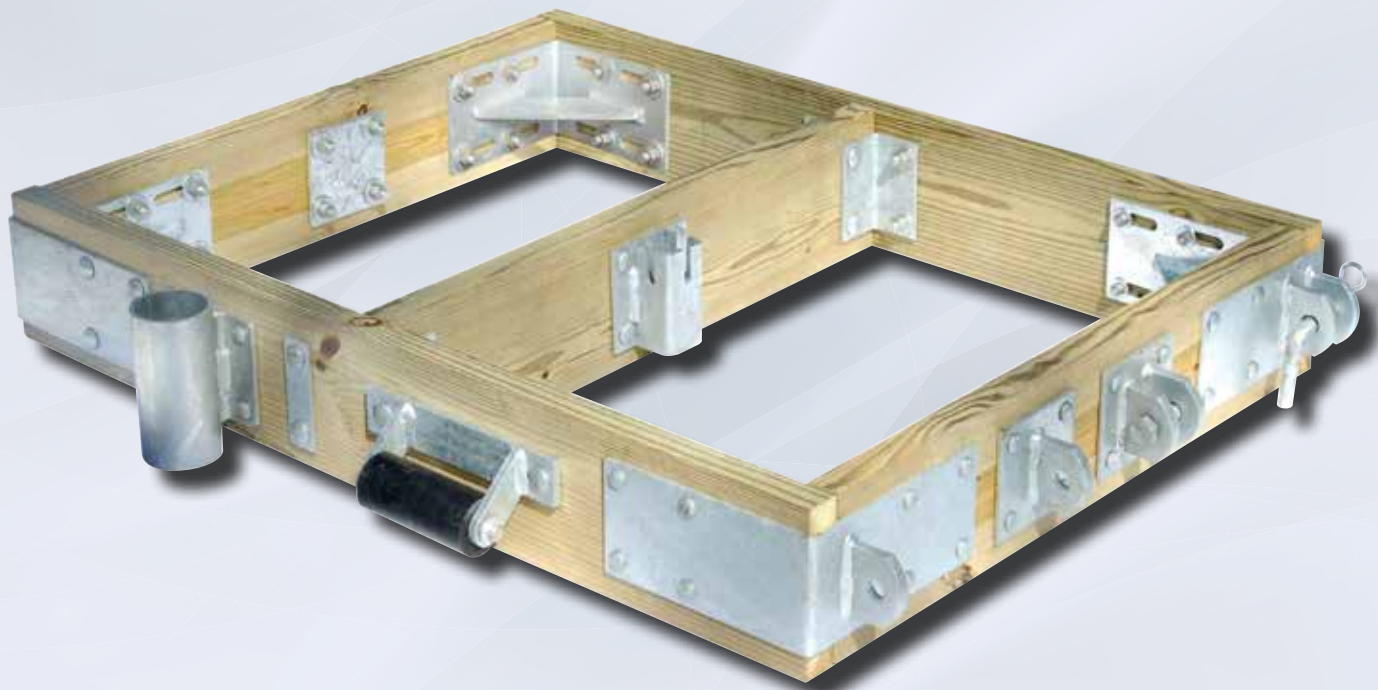
Dock System Dock Hardware is designed for use with 1-1/2" lumber (minimum width of 6"). Dock System components are available in two grades:

► Standard Grade

- 3/16" Material Thickness
- Hot Dipped Galvanized Finish
- 7/16" Mounting Holes
- Use with 3/8" Carriage Bolts

► Commercial Grade

- 1/4" Material Thickness
- Hot Dipped Galvanized Finish
- 9/16" Mounting Holes
- Use with 1/2" Carriage Bolts



Typical Dock to Dock Installation

Detailed plans and bills of material for common floating wood docks and swim floats are available from Tie Down Engineering at www.tiedown.com.



Lag Bolts
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Carriage Bolt Sets
Page 6



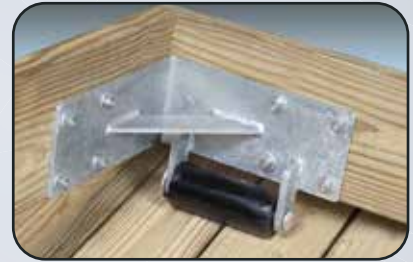
Hex Head Bolt Sets
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Inside Corner
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Inside Corner Pipe Holder
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Inside Rolling Ramp Brackets
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Outside Corner End
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Outside Corner/Male
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Outside Corner/Female
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Male T Connector
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Female T Connector
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Connector Pin Set
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Outside Pipe Holder
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Chain Retainer
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Back Up Plate
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Washer Plate
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Backing Plate
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Angle Brackets/Clips
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Piling Hoop
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Deck Plate
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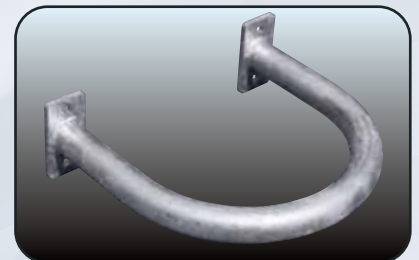
Piling Hoop
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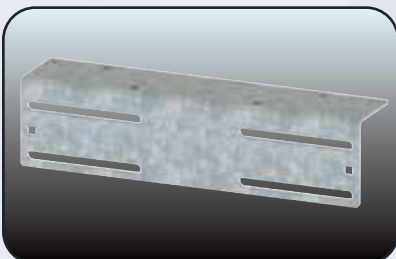
Roller Assembly
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Piling Hoop and Roller
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Piling Hoop
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Universal Dock Plate
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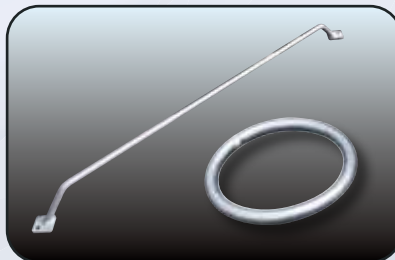
14" Hoop Roller Holder
Page 17



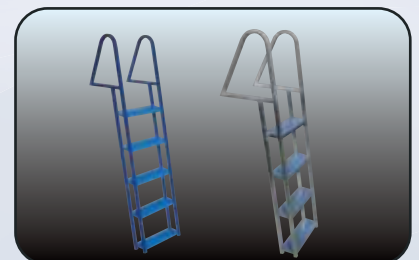
Chain Pile Holder
Page 17



14" Internal Pile Holder
Page 17



Piling Rod/Ring
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Dock Ladders
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Lag Bolt Set

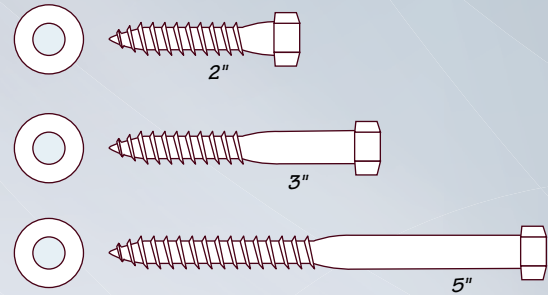
Bolt and flat washer with hot dip galvanized finish used to attach flotation drums to dock system.

Sold 8 per bag.

Standard & Commercial - 3/8" x 2" Part #24287

Standard & Commercial - 3/8" x 3" Part #24289

Standard & Commercial - 3/8" x 5" Part #24292



Carriage Bolt Set

Set includes carriage bolt, flat washer and nut

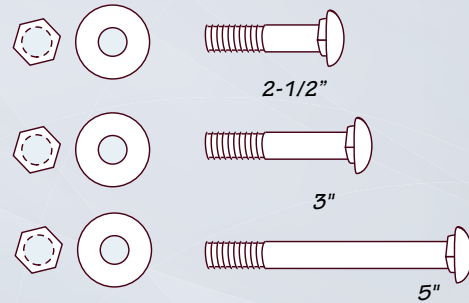
Hot dip galvanized finish.

Sold 8 per bag.

Standard Grade - 3/8" x 2-1/2" Part #26534

Commercial Grade - 1/2" x 3" Part #26535

Commercial Grade - 1/2" x 5" Part #26536



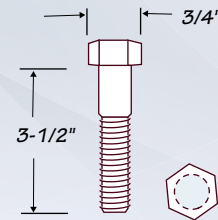
Hex Head Bolt Set

Includes nut. Used to connect male and female T connectors. Hot dip galvanized finish.

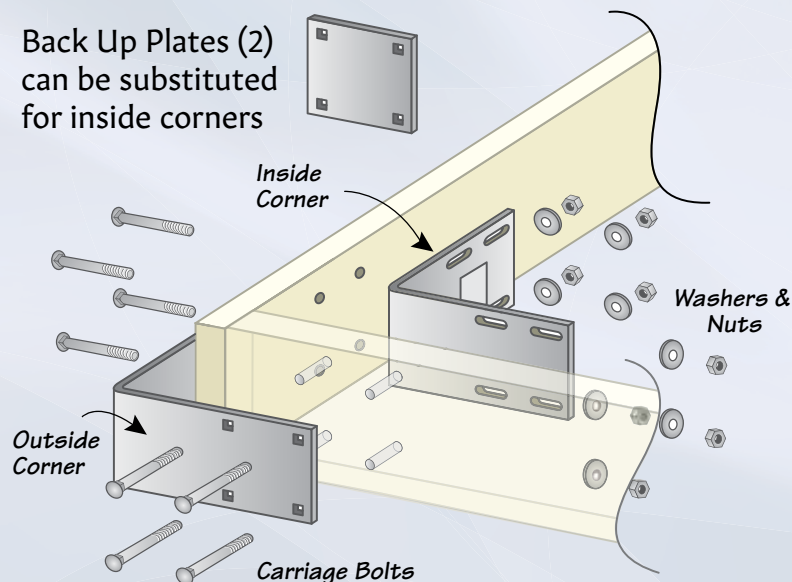
Sold 8 per bag.

Standard Grade

Part #24279



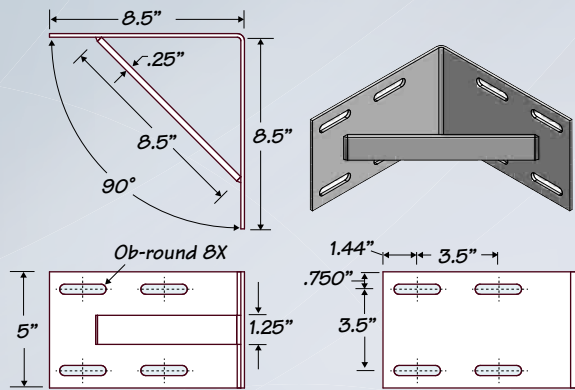
Back Up Plates (2)
can be substituted
for inside corners



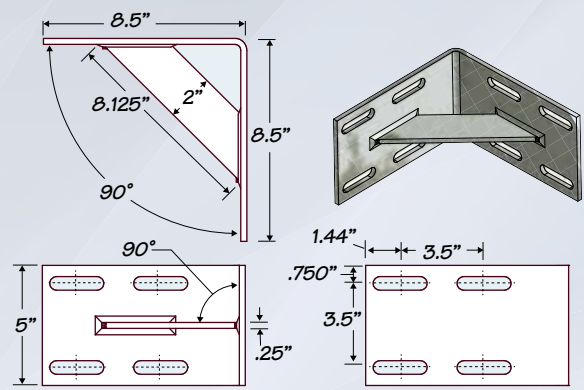
Typical Corner Mounting

Inside Corner

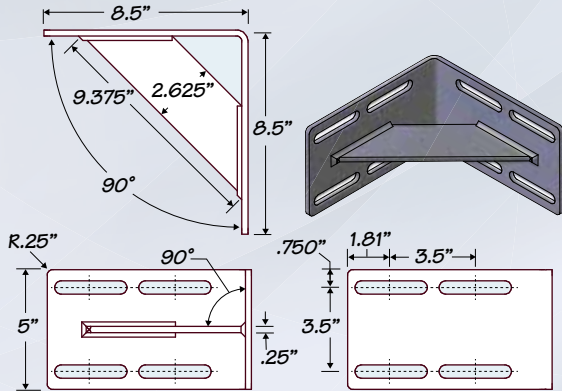
This heavy duty inside corner is used with outside corners.



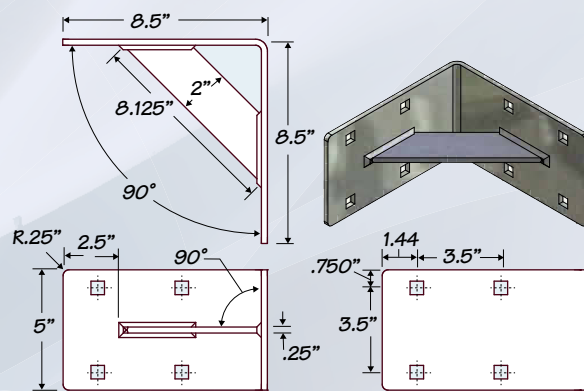
8-1/2" L x 5" H with 2" Elongated Holes and Vertical Gusset
Standard Grade Part #26524



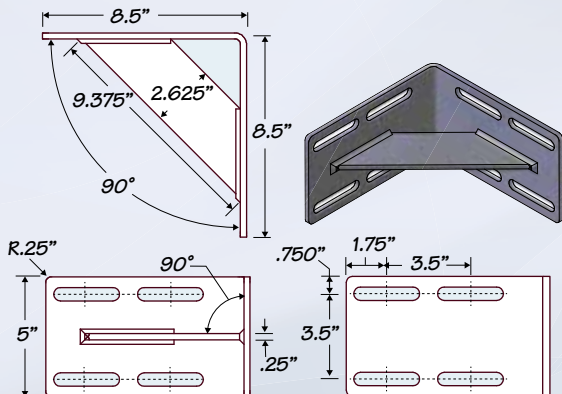
8-1/2" L x 5" H with 2-1/4" Elongated Holes and Horizontal Gusset
Commercial Grade Part #26403



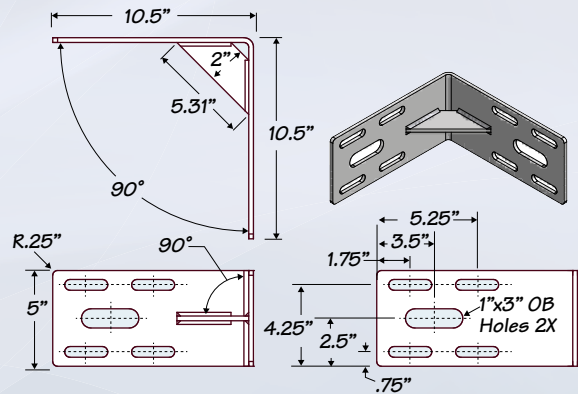
8-1/2" L x 5" H with 3" Elongated Holes and Horizontal Gusset
Commercial Grade Part #26417



8-1/2" L x 5" H with Square Holes and Horizontal Gusset
Commercial Grade Part #26401



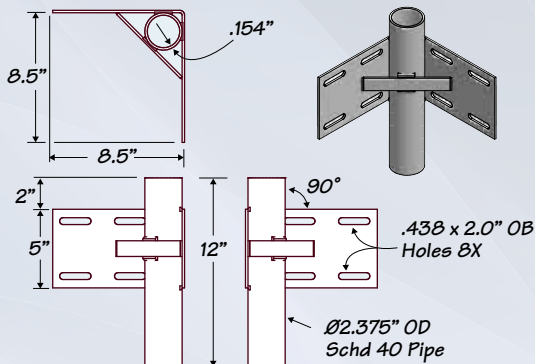
8-1/2" L x 5" H with 2-1/4" Elongated Holes and Larger Horizontal Gusset
Commercial Grade Part #26430



10-1/2" L x 5" H with 2-1/4" Elongated Holes and Small Horizontal Gusset
Commercial Grade Part #26424

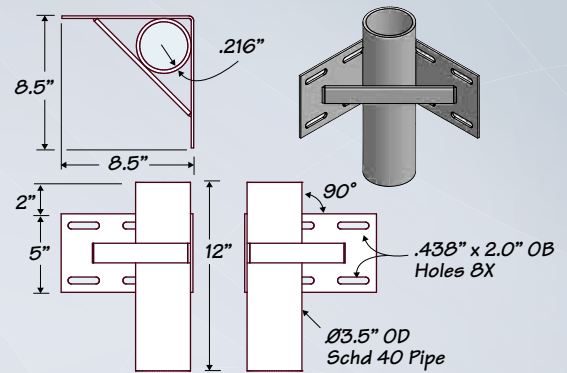
Inside Corner Pipe Holder

These heavy duty inside corner pipe holders can be used with one of the outside corner brackets. Tie Down offers both standard and commercial versions of 2" ID or 3" ID pipe holders.

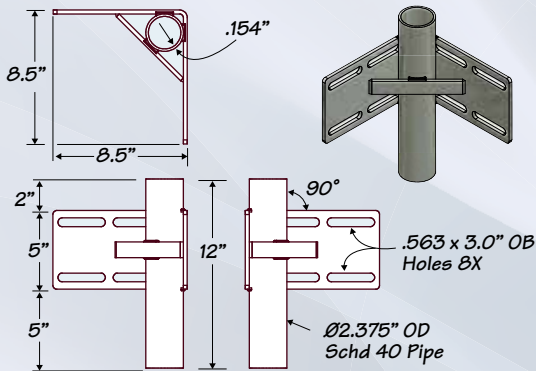


NOTE: See #26524 "Inside Corner" for bolt pattern

2" Pipe Holder - 8-1/2"L x 5"H
Standard Grade Part #26526

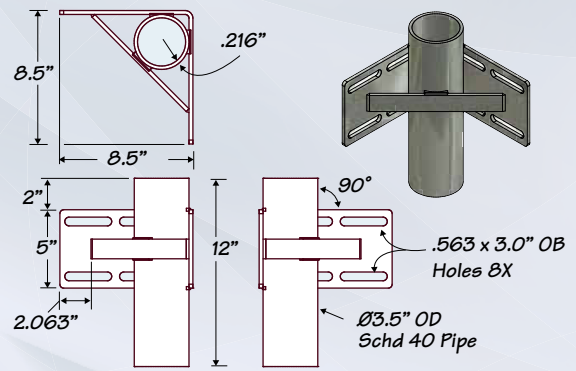


3" Pipe Holder - 8-1/2"L x 5"H
Standard Grade Part #26525



NOTE: See #26417 "Inside Corner" for bolt pattern

2" Pipe Holder - 8-1/2"L x 5"H
Commercial Grade Part #26405

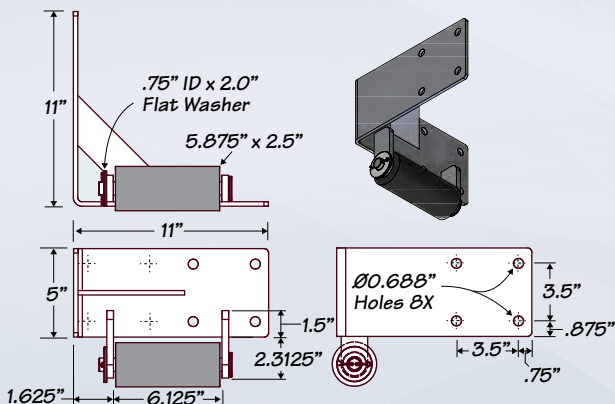


NOTE: See #26417 "Inside Corner" for bolt pattern

3" Pipe Holder - 8-1/2"L x 5"H
Commercial Grade Part #26404

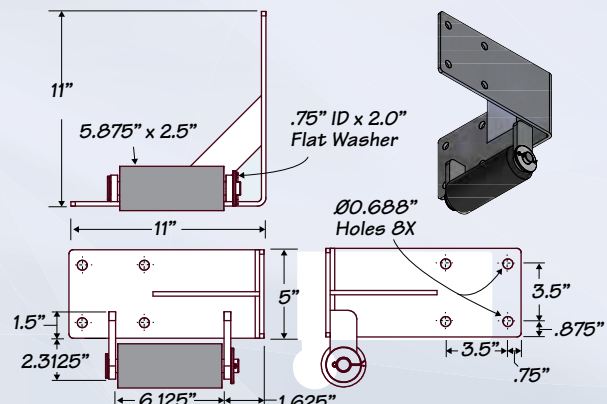
Inside Rolling Ramp Bracket

5"x 11" x 1/4" galvanized steel, left and right ramp brackets included.



Inside LEFT Rolling Bracket

11"L x 5"H
Commercial Grade

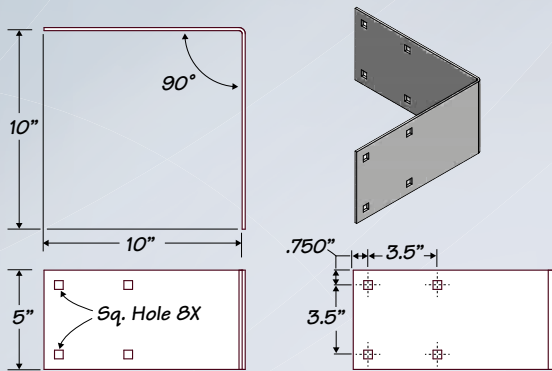


Inside RIGHT Rolling Bracket

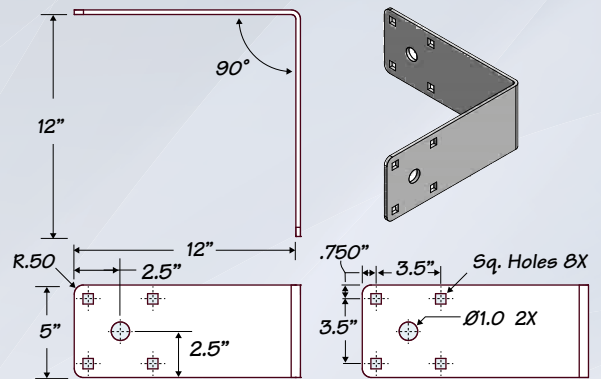
Part #26431

Outside Corner End

Use this corner at ends of fingers and docks. Ideal for swim floats and ski jump corners.



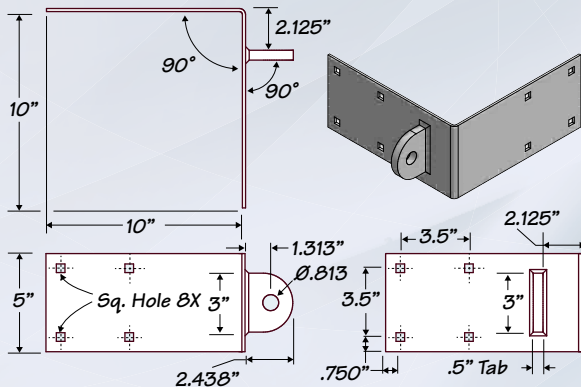
10"L x 5"H with Square Holes
Standard Grade Part #26523
Commercial Grade Part #26402



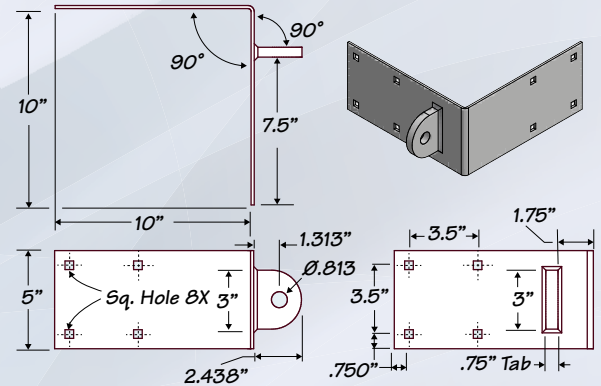
12"L x 5"H with Square Holes
Commercial Grade Part #26428

Outside Corner/Male

Use with a female outside corner to connect docks end to end. Joint requires 3/4" bolt set or connector pin.



10"L x 5"H with 1/2" Welded Tab
Standard Grade Part #26522
Commercial Grade Part #25491

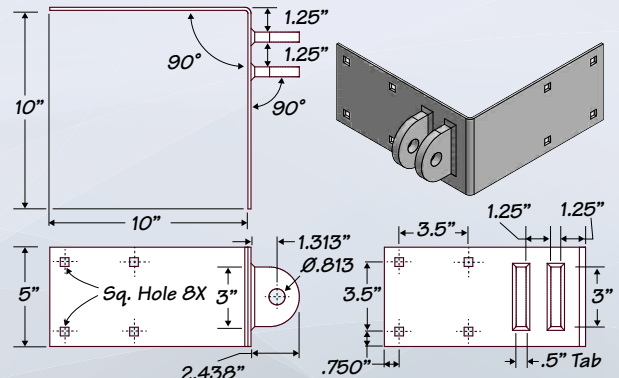


10"L x 5"H with 3/4" Welded Tab
Commercial Grade Part #26418

Outside Corner/Female

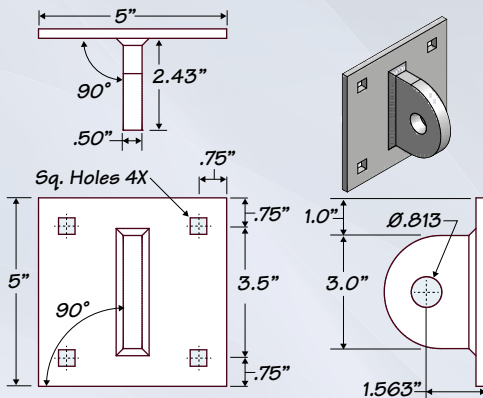
Use with a male outside corner.

10"L x 5"H with 1/2" Welded Tabs
Standard Grade Part #26521
Commercial Grade Part #26400

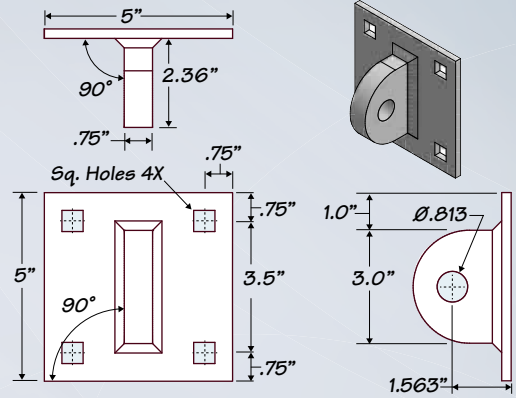


Male T Connector

Use with female T connector to attach fingers and ramps, 3/4" bolt set required for joint.



5" L x 5" H with 1/2" Welded Tab
Standard Grade Part #26532
Commercial Grade Part #26408

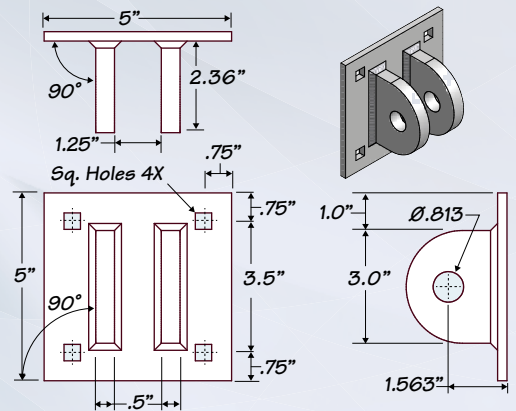


5" L x 5" H with 3/4" Welded Tab
Commercial Grade Part #26427

Female T Connector

Has two welded 1/2" tabs. Bolts to side of dock to attach fingers and ramps.

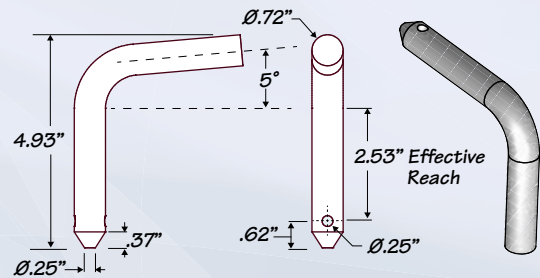
5" L x 5" H with 1/2" Welded Tabs
Standard Grade Part #26528
Commercial Grade Part #26407



Connector Pin Set

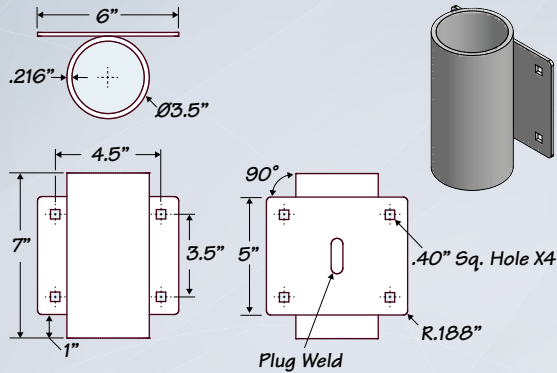
For quick disconnect. Used to connect male and female T connectors. Galvanized 3/4" connector pin and hitch clip pin.

Standard Grade Part #26531

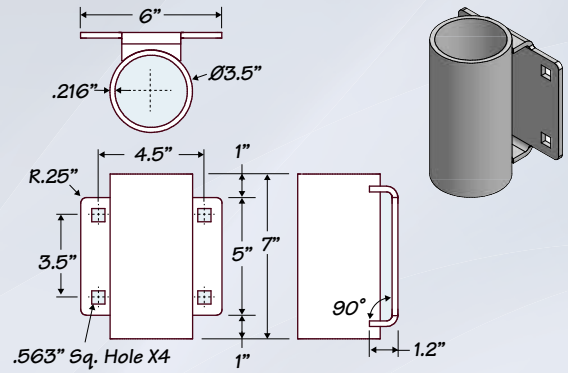


Outside Pipe Holder

Pipe Holder bolts to the outside of the dock. Carriage bolt set required for attaching. Pipe Holder has a 3" ID for use with 2" pipe to hold dock in place.



3" Outside Pipe Holder - 6"L x 5"H
Standard Grade Part #24280

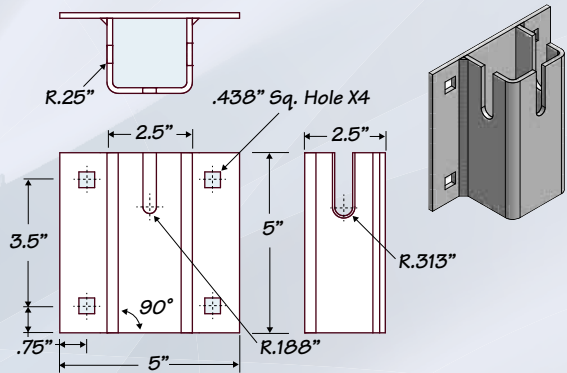


3" Outside Pipe Holder - 6"L x 5"H
Commercial Grade Part #26411

Chain Retainer

Bolts to side of dock. Use weights and chains to hold dock in place. Accommodates 1/4", 3/8", & 1/2" chain.

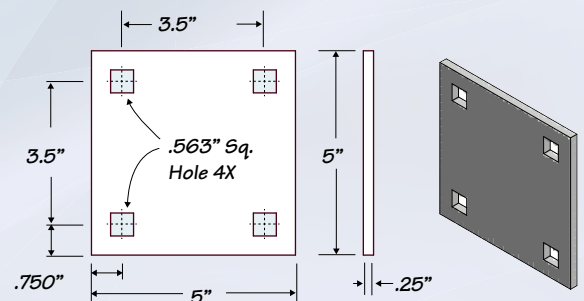
5"x5" with Square Holes
Standard Grade Part #26529
Commercial Grade Part #26410



Back Up Plate

5"x5" reinforcing plates are used to back up the single T males and females.

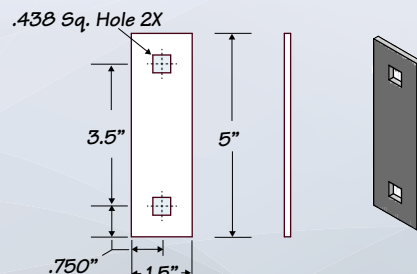
Commercial Grade Part #26413



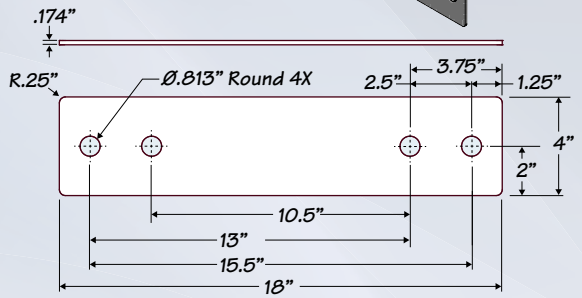
Washer Plate

Use two washer plates with each angle. Measures 1-1/2"L x 5"H

Standard Grade Part #24284
Commercial Grade Part #26409



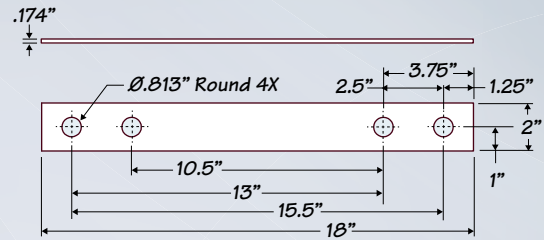
Backing Plate/Hurricane Strap



4" x 18" x 7 ga.

Standard Grade

Part #26396



2" x 18" x 7 ga.

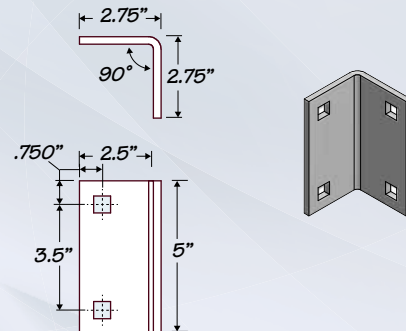
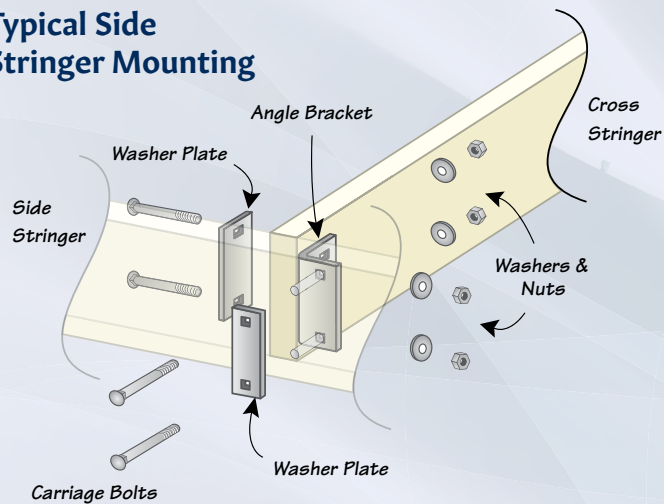
Standard Grade

Part #26369

Angle Brackets/Clips

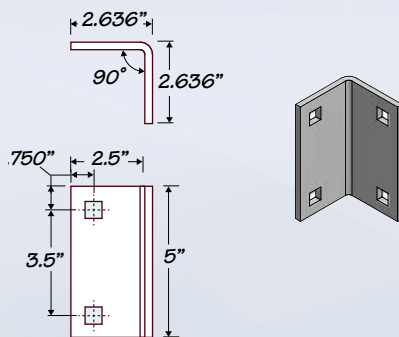
Use these heavy-duty angles for all cross supports.

Typical Side Stringer Mounting



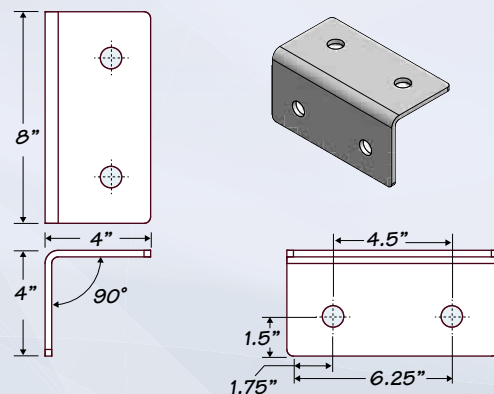
2-1/2" L x 5" H with 2 Square Holes Per Side
Commercial Grade

Part #26406



2-1/2" L x 5" H with 2 Square Holes Per Side
Standard Grade

Part #26527

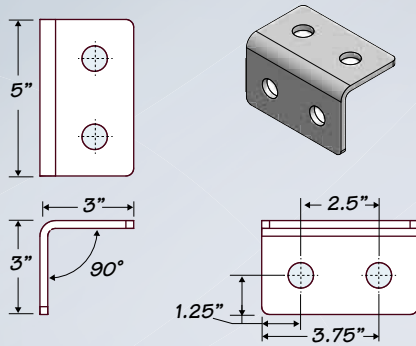


4" L x 8" H with 2 Round Holes Per Side
Commercial Grade

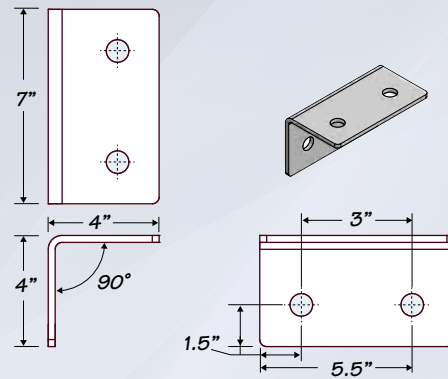
Part #26397

Angle Brackets/Clips

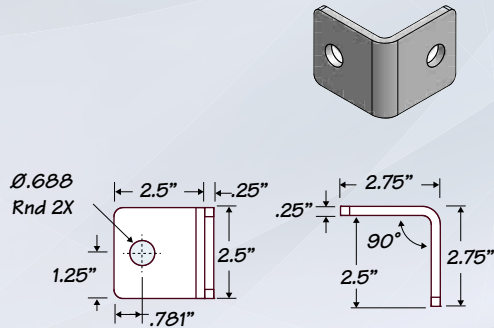
Use these heavy-duty angles for all cross supports.



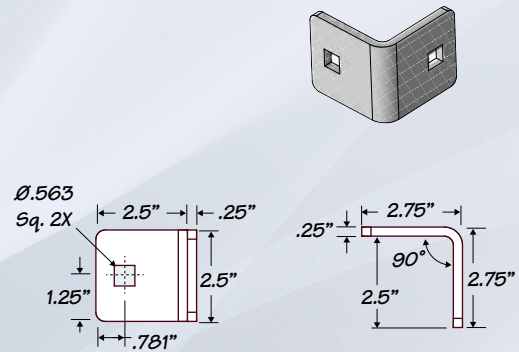
3"L x 5"H with 2 Round Holes Per Side
Commercial Grade Part #26398



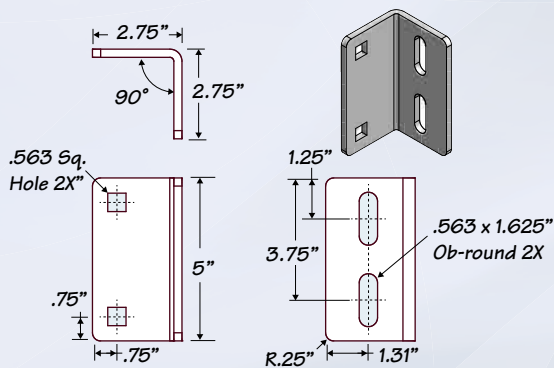
4"L x 7"H with 2 Round Holes Per Side
Commercial Grade Part #26380



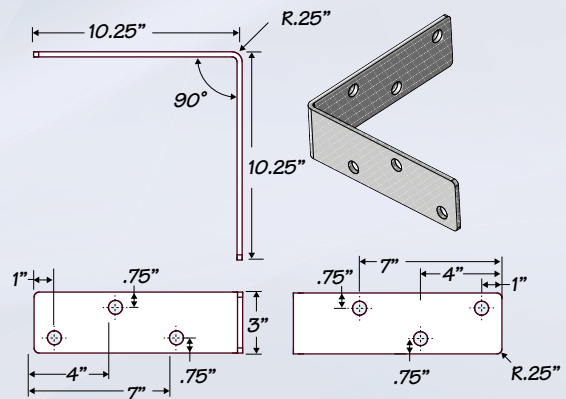
2-3/4"L x 2-1/2"H with 1 Round Hole Per Side
Commercial Grade Part #26392



2-3/4"L x 2-1/2"H with 1 Square Hole Per Side
Commercial Grade Part #26399



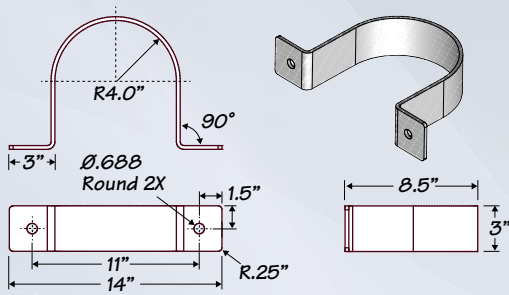
Cleat Angle 2-3/4"L x 5"H
Commercial Grade Part #26422



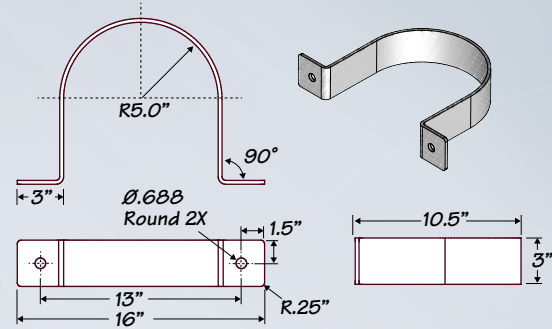
10-1/4"L x 3"H with 3 Square Holes Per Side
Commercial Grade Part #26379

Piling Hoop

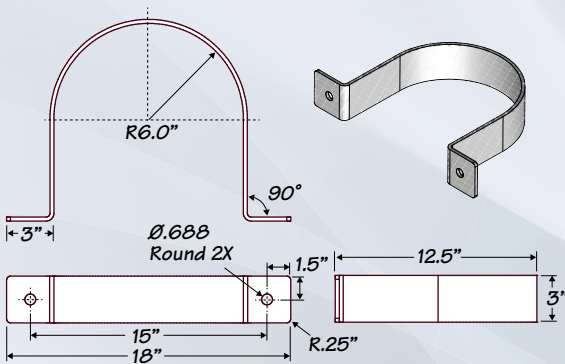
Heavy Duty 1/4" galvanized steel x 3" high



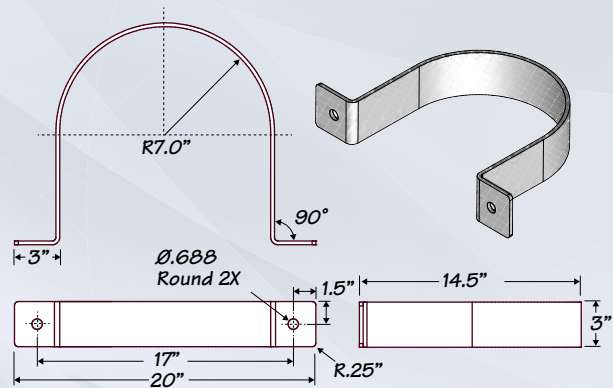
14"x 3" with 4" radius for 8" Piles
Commercial Grade Part #26429



16"x 3" with 5" radius for 10" Piles
Commercial Grade Part #26391



18"x 3" with 6" radius for 12" Piles
Commercial Grade Part #26394



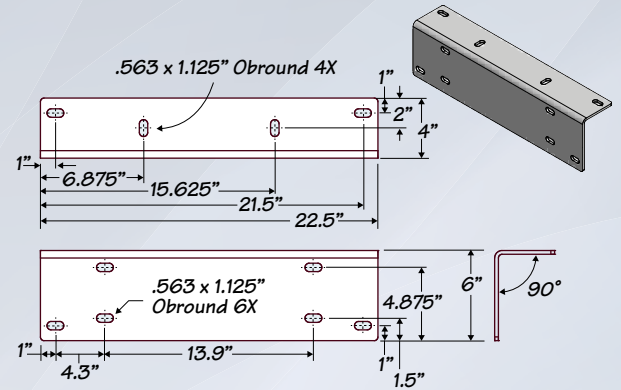
20"x 3" with 7" radius for 14" Piles
Commercial Grade Part #26393



Deck Plate

Heavy Duty Deck Plate for use with piling hoop. This 3/16" thick 4"x 6" angle can be bolted from the top and side of the dock. The hoop can then be bolted to the angle, allowing it to be removed seasonally.

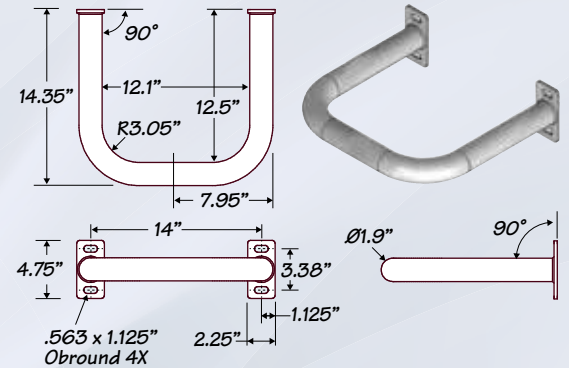
22-1/2"L x 6H x 4W
Commercial Grade Part #26416



Piling Hoop

Heavy Duty Piling Hoop for pilings up to 12" in diameter. The hoop is constructed of 1-1/2" pipe and is hot dip galvanized. It can be bolted directly to the side of the dock or to the optional Deck Plate (Part #26416).

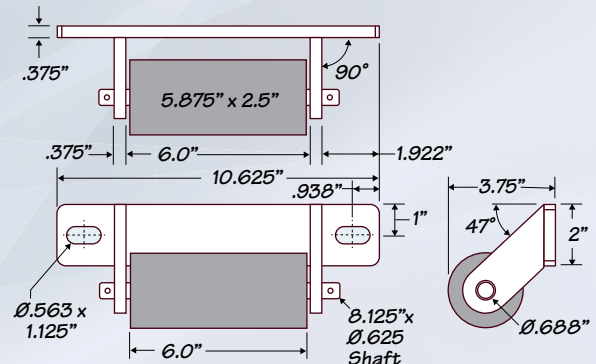
14-3/8"L x 4-3/4H x 16-1/4W
Commercial Grade Part #26412



Roller Assembly

Heavy Duty Roller Assembly - Bracket and roller bolt directly to the deck plate (Part #26416) and can be added to aid up-and-down motion of the dock in areas with tidal action. The 6" roller turns on a 5/8" diameter shaft and the 3/8" bracket is hot-dipped galvanized.

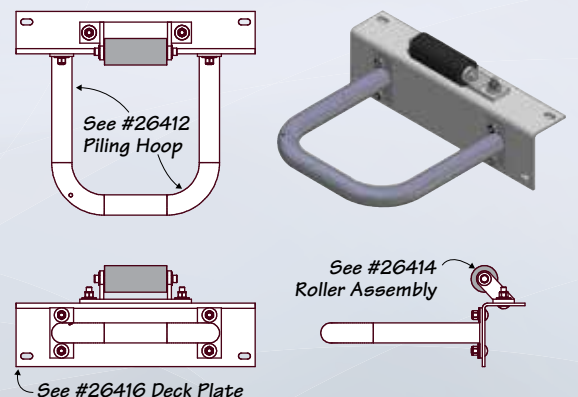
10-5/8"W x 2"H x 3-3/4"W
Commercial Grade Part #26414



Piling Hoop and Roller

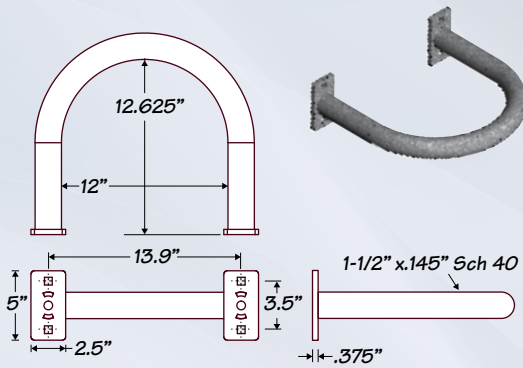
Piling Hoop and Roller Assembly intended for areas with lots of wind, current, or tidal action. Combines the piling hoop (Part #26412) and roller assembly (Part #26414) to make up and down movement easier. For pilings up to 12" in diameter.

22-1/2"L x 6H x 4W
Commercial Grade Part #26415

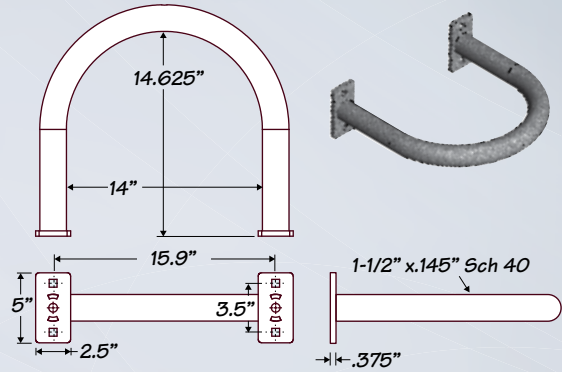


Piling Hoop

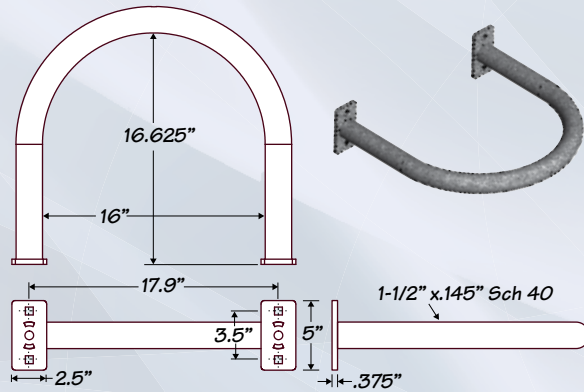
2" round steel piling hoop with 3/8" welded mounting tabs can be secured directly to dock with carriage bolts or with the Universal Deck Plate (Part #26447) to allow easy removal and a more secure attachment point.



12" Piling Hoop
Commercial Grade Part #26444



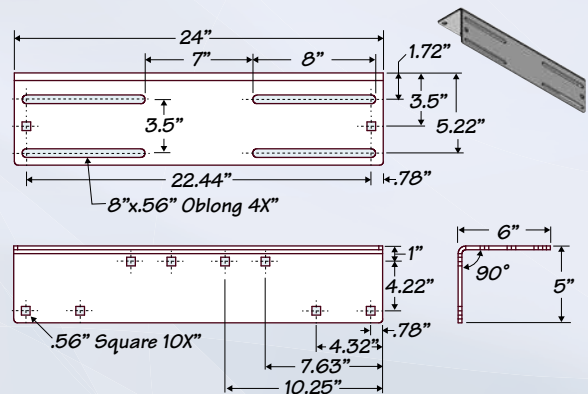
14" Piling Hoop
Commercial Grade Part #26445



16" Piling Hoop
Commercial Grade Part #26446

Universal Deck Plate

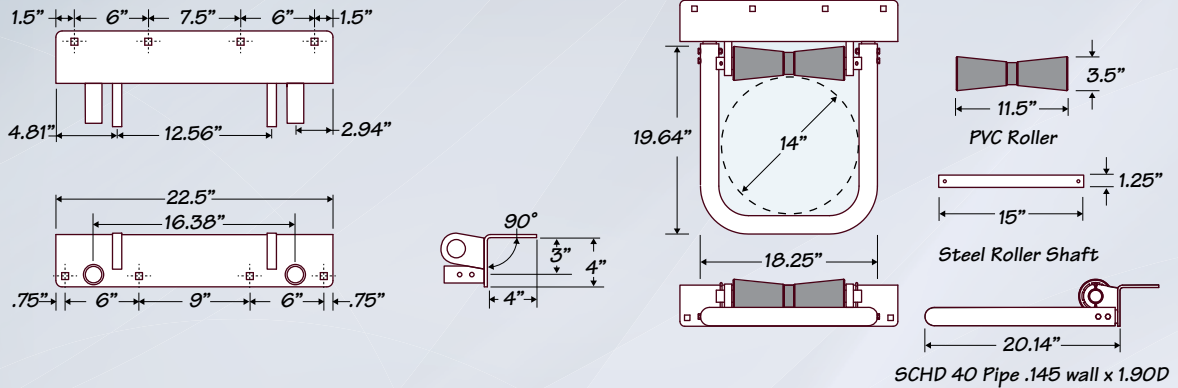
Heavy duty universal deck plate has slots that allow use with any of the piling hoops listed above. Plate measures 24" (long) x 6" (top) x 5" (side) and is sized to be bolted to dock from top and side. Holes and slots allow top and side mounting of roller assembly part #26414.



Commercial Grade Part #26448

14" Hoop Roller Pile Holder

With a 14-1/2" interior width this pile holder can be used with piling up to 14" in diameter. A 12" durable poly-vinyl roller mounted on a 1-1/4" diameter shaft will provide years of service.

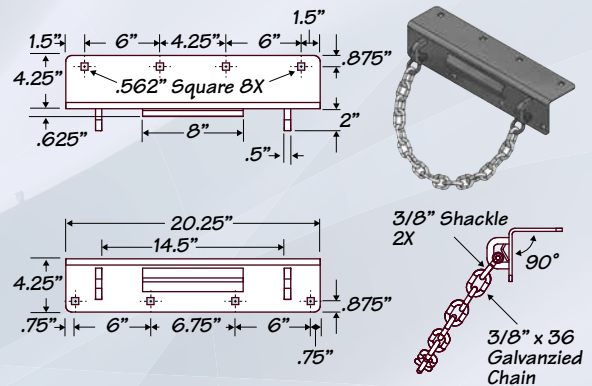


24-1/4" L x 4-1/4" H x 22-1/2" W
Commercial Grade Part #26423

Chain Pile Holder

For use as a pile holder with 3/8" galvanized chain and shackles. Can be adjusted for various pile diameters.

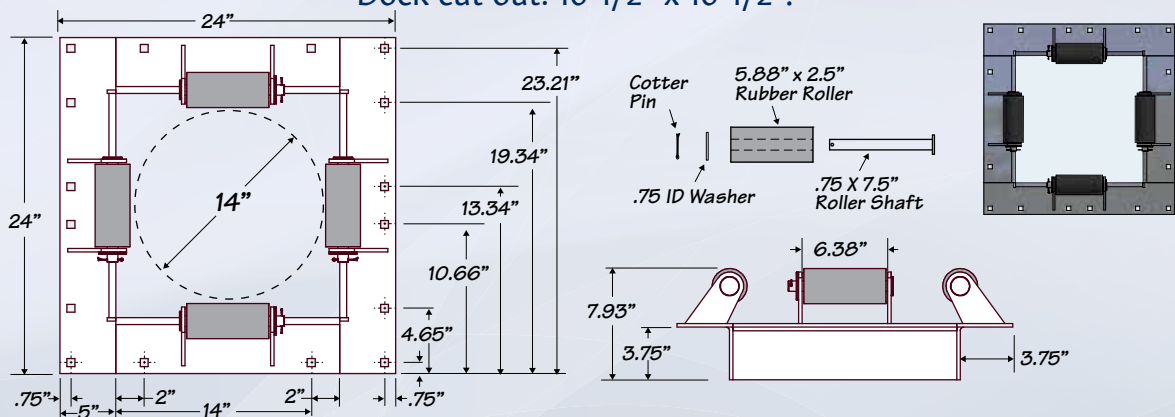
20-1/4" L x 4-1/4" H x 4-1/4" W
Commercial Grade Part #26419



14" Internal Pile Holder

The interior width of 14", pile holder will allow it to be used with piling up to 13-1/2" in diameter. Four 6" rubber rollers allow dock movement for usage in tidal areas or where water levels change.

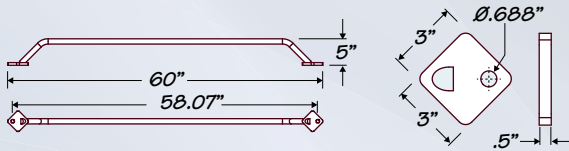
Dock cut out: 16-1/2" x 16-1/2".



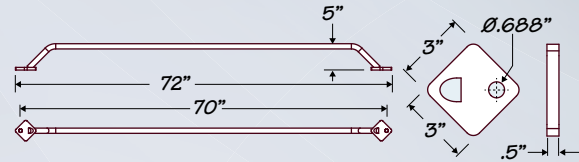
24" L x 7-15/16" H x 7-15/16" W
Commercial Grade Part #26434

Piling Rod/Ring

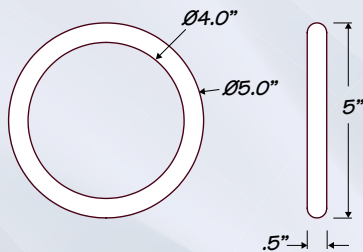
Piling rod for use in mooring boats where tidal changes and fluctuating water levels require a movable tethering point. Rods are used in conjunction with a 1/2" by 4" steel ring (part #26442 -sold separately). Rod consists of a solid 1.0" steel bar welded to two 3/8"x 3" x 3" mounting plates. Holes in mounting plates are sized for use of 5/8" bolts. Hot dipped galvanized finish will provide superior corrosion protection.



5' Piling Rod
Commercial Grade Part #26440



6' Piling Rod
Commercial Grade Part #26441

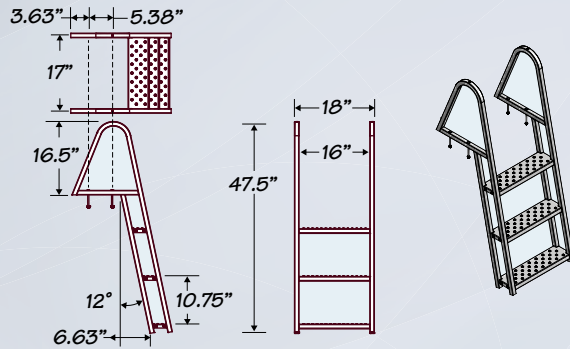


4" Ring
Commercial Grade
Part #26442



Dock Ladders

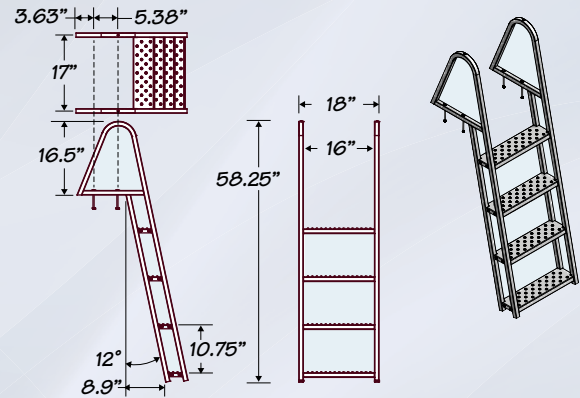
Comes in two finishes; blue powder coat and galvanized (silver finish); three sizes - 3 step, 4 step, and 5 step. Powder coat provides a tough durable finish. Steps are galvanized or powder coated for extra protection. Galvanized version protects against rust and corrosion in salt water. 250# capacity



3 Step Dock Ladder

Blue Powder Coat
Galvanized

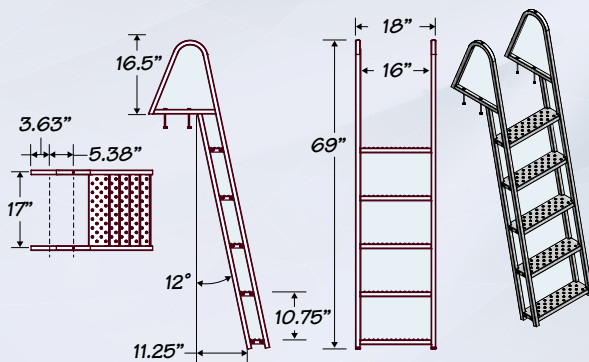
Part #27273
Part #28273



4 Step Dock Ladder

Blue Powder Coat
Galvanized

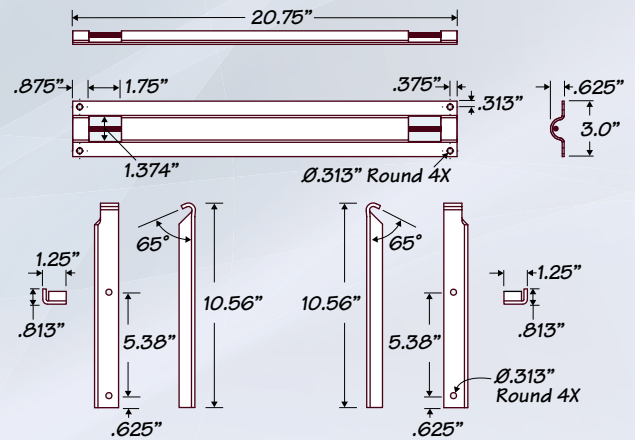
Part #27274
Part #28274



5 Step Dock Ladder

Blue Powder Coat
Galvanized

Part #27275
Part #28275

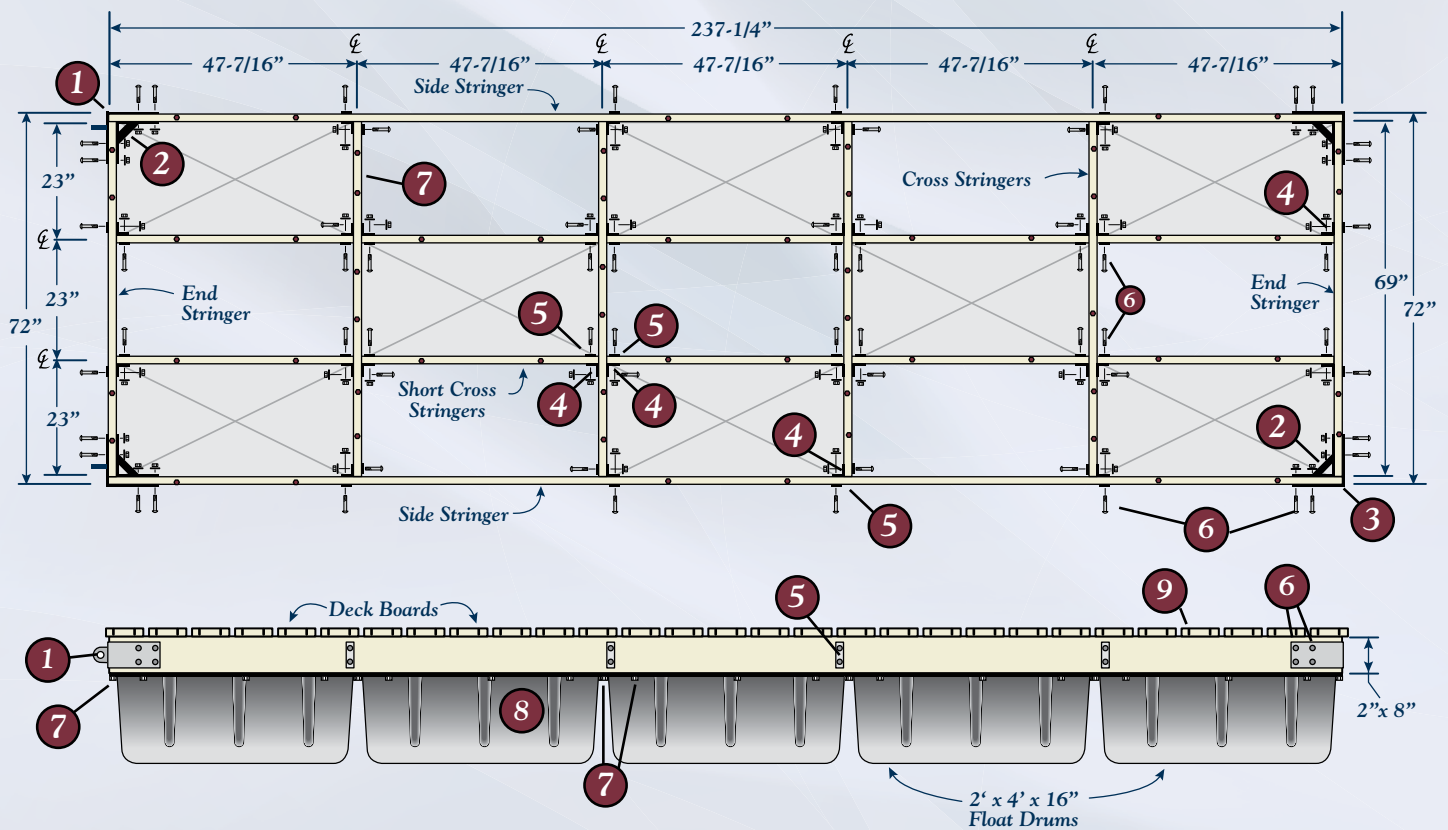
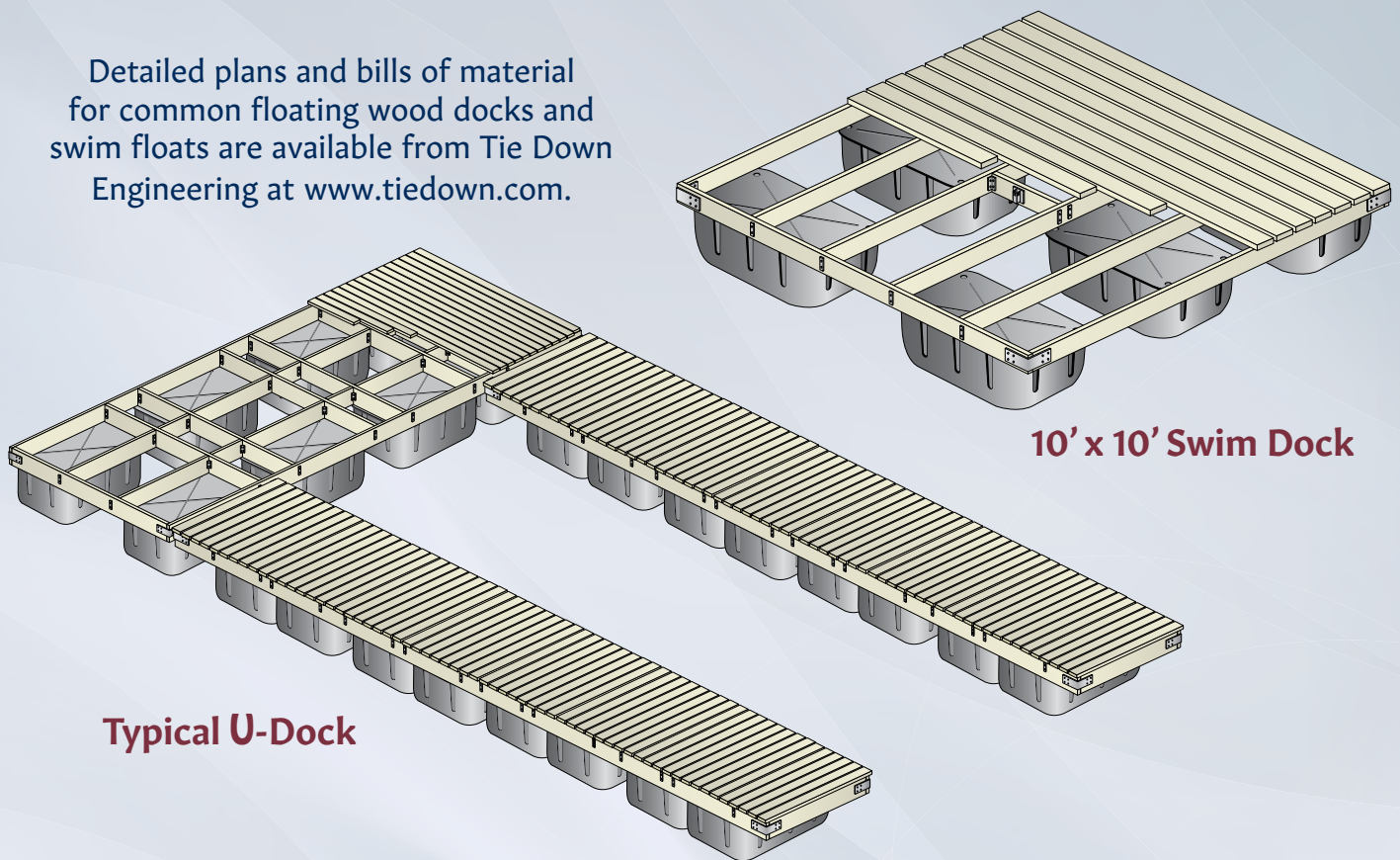


Speed Release

Galvanized

Part #27271

Detailed plans and bills of material for common floating wood docks and swim floats are available from Tie Down Engineering at www.tiedown.com.



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