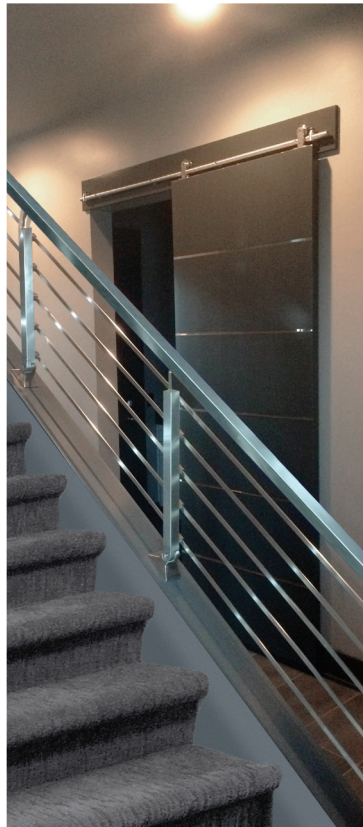


OAK POINTE

Stair Parts and More

MODERN
METAL
COLLECTION



INTERIOR • EXTERIOR

STAINLESS STEEL

CABLE

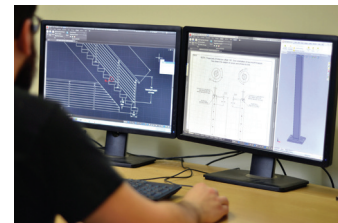
INFILLS

Edition 1.5

Modern Metal Made Easy...



This Modern Metal Collection from Oak Pointe, LLC which includes stainless steel and other metal components is the most comprehensive offering available. While you are welcome to navigate this catalog and choose your parts we'll do the work for you. Our program includes the following aspects to make it easy...



Step 1: Send us a copy of the stair or deck plans with measurements and your basic specifications: interior or exterior, type of rail & newels, rake & level rail heights, infill desired-include size and solid or hollow where applicable.



Step 2: Oak Pointe experts will design your railing system and provide you with a quotation, subject to final field measurements.



Step 3: Upon receipt of your order Oak Pointe's CAD department will draw every section of your project. When you receive the drawings, all measurements must be field-verified for accuracy. Upon approval, Oak Pointe will begin fabricating your components.



Step 4: Your order will arrive ready to install and assemble per our drawings. Metal newels will be fabricated & machined, ready to install while stainless steel railings, for example, are to be cut and drilled & tapped in the field for accurate fit. All of the difficult work is done in our shop!

On the cover...

"Stainless Steel Photo" courtesy of S. E. Smith & Sons, Blair, NE

"Cable Photo" courtesy of Atlantic Millwork & Cabinetry, Lewes, DE



www.StairPartsandMore.com

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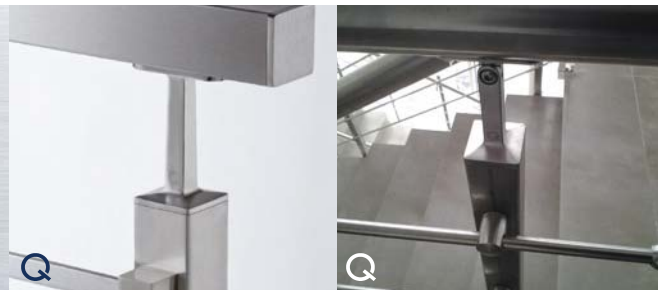
STAINLESS STEEL FULL VIEW SERIES

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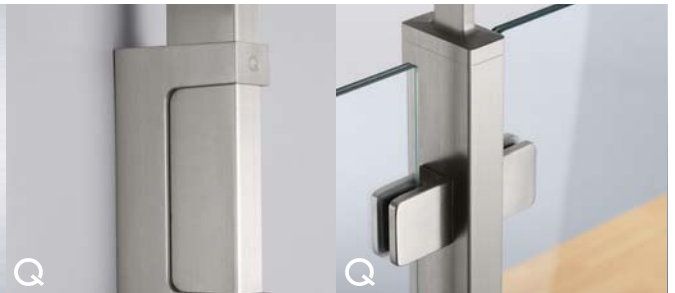
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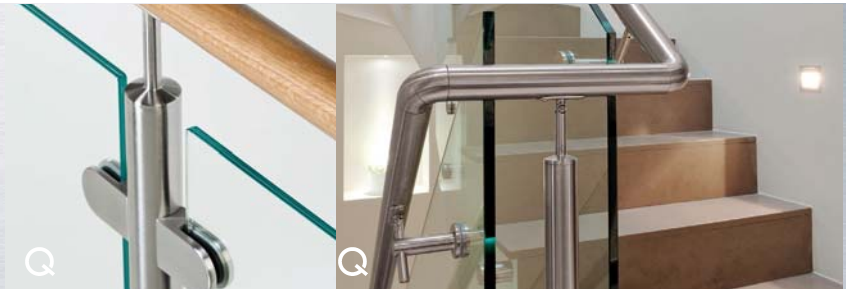
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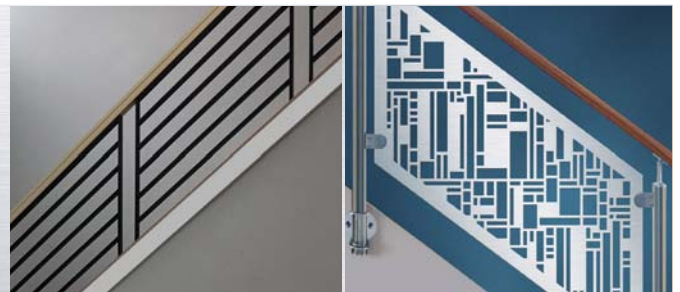
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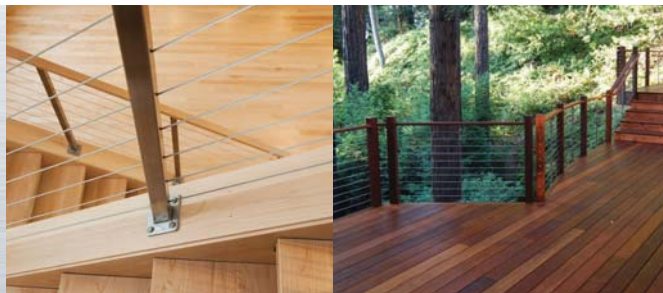
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STAINLESS STEEL
CABLE
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Stainless Steel products in our Oak Pointe Modern Metal Collection have a #4 satin finish. If you desire a polish finish please contact us for availability.



304 or 316 Stainless Steel?

Although not visible to the naked eye, the variance between different grades of stainless steel lies in its composition. As steel is naturally corrosive, different elements are added to make it stainless. The industry standard for interior use is a 304 grade stainless steel. In comparison, 316 stainless steel (marine grade) contains 2% molybdenum, which makes the material more resistant to corrosion caused by cracks, tension and pitting. For outdoor use we recommend 316 grade stainless steel, as the tougher composition gives better resistance in these harsh environments.



Order Components or a Ready to Assemble "Kit"

Stainless steel is hard on tools so Oak Pointe is providing the option to have your newels pre-cut or fabricated to length and also drilled and tapped for screwed on accessories or just drilled for cable. 1/2" solid bars for curved applications may be bent by your local machine shop or Oak Pointe can have them bent for you. Rail should be cut to length in the field to insure proper fit. For Oak Pointe to provide any of these services please contact our office to find out the information you will need to provide to us.

Protection and Prevention

The key thing to keep in mind with stainless steel is that it stain "less" but not completely corrosion-proof, as is commonly thought. Stainless steel is a reliable and long lasting material. It is nevertheless necessary to treat it correctly in order to avoid oxidation. Stainless steel can oxidize from some of these common causes: pollution, contact with iron including tools that were used to work with iron and airborne particles. **To clean away any harmful residue, we recommend that you treat the entire structure with Q-ultra-clean as soon as it is installed.** Repeating this on a regular basis will ensure long-lasting protection.



For more information please see page 71.

Our stainless steel maintenance products are specifically for stainless steel and include these items:

- Q-ultra-clean: Removes dirt and surface corrosion and reinforces the protective passive layer.
- Q-cleaner: A stainless steel cleaning spray that removes stains and enhances shine.
- Scotch®-Brite: Polishing pads to remove scratches.

Aluminum

Aluminum is an extremely lightweight metal that is nevertheless strong. It is therefore especially suitable for applications requiring excellent strength and minimal weight, properties that we have put to good use in our Full View series. Aluminum has a naturally occurring oxide layer that protects the metal from corrosion. This natural layer can be strengthened by anodization so that products then have improved resistance to the effects of weathering. All aluminum products are brushed and anodized, unless otherwise stated in our catalog and all products are therefore ideal for use indoors and outdoors. If the surface is damaged during installation, appropriate protection should be restored.



For cleaning of aluminum and zinc die-cast products use warm water and soap.

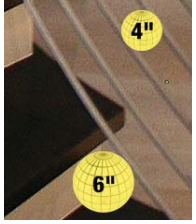
Installation & Terminology

Infill space: is the term referring to the horizontal space between newels and the vertical space from the top of the tread, floor, deck, bottom rail, etc to the bottom of the handrail.

Infill: is the term referring to the type of product that will fill the space between newels, treads, floor, deck, bottom rail, etc. and the bottom of the handrail. In this catalog Oak Pointe offers designer metal panels, flat bar, round bar, glass clamps & cable infill.

Newel spacing: when using infill options in this catalog newels should be spaced no more than every 48" (Designer Metal Panels 42") and closer as the elements require. In most cases, cable systems may have newels every 96" with an intermediate cable support every 48" as long as the newels at the start and end of the cable run are heavy duty to where cable has no more than 1/4" flex after tensioning. If you are unsure of your newel requirements to obtain a stable rail system please consult an engineer.

Infill spacing: most local communities require the stairway to meet the 4", 4-3/8" & 6" sphere rules as shown below (please check with your specific building department). Flat, square and round bars & tubes should be installed so the spacing between bars is less than the requirement (in most cases less than 4" on the level and less than 4-3/8" on the rake). Cable is flexible so cables should be installed no more than 3" between each run (3-1/8" on center for 1/8" diameter cable). Certain field conditions and longer runs may require tighter spacing. **NOTE: local building codes vary so do not act upon this information without verifying it with your local building official.**



Maintenance	Application	304	316
Low	Indoor structures (no wet spaces).	✓	✓
Moderate	Indoor structures without noticeable chlorine and sulphur dioxide load (e.g. semi-chemical factories).	✓	✓
Medium	Outdoor structures with moderate chlorine and sulphur dioxide load (e.g. inland, at least 15 miles from the coast or other aquatic environments). <i>Recommended periodic maintenance/preventative maintenance using Q-ultra cleaner.</i>		✓
High	Outdoor structures with a high degree of corrosion due to chlorine and/or sulphur dioxide load; high humidity; accumulation of harmful substances (e.g. in coastal regions and swimming pool environments). <i>Recommended frequent maintenance/preventative maintenance using Q-ultra cleaner.</i>		✓



Machining Stainless Steel & other metals

Your safety should always be the primary consideration. Always wear safety glasses, ear protection, leather gloves, full length pants and a long sleeve shirt. The parts being cut or drilled will get hot...so be careful. When working with stainless steel, always use clean cutting wheels, blades and drill bits specific to stainless steel.

Wood & Metal...



Malta Series (Diamond Collection)

Malta newels with their stainless steel accents are perfect for use with other stainless steel or wood components.

See our full-line catalog or StairPartsandMore.com for more details.



Contemporary Box Newels

Oak Pointe introduces this new line in two sizes and 12 different standard designs to choose from! Flat panel options include: Stainless Steel 304, the newel species or any additional standard or special order wood species. Get creative - mix them to achieve the look and rail configuration desired.

See our full-line catalog or StairPartsandMore.com for more details.

Custom Powder Coating

Our Powder Coating program is being offered to meet the many requests from our customers. Both iron baluster collections, from the Pacific and from Europe, come in several distinguished finishes but now you don't have to settle. Similar to our vast offering of wood species, our Custom Powder Coating program allows you to order iron balusters, stainless steel and aluminum products in most any color that you want.

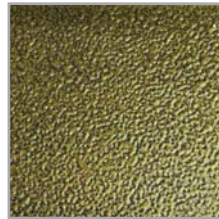
The 9 elegant colors shown below are ones we chose to feature but for hundreds of other choices go to www.ralcolor.com.



Copper Vein



Gold Vein



Poly Gold Vein



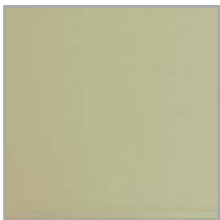
Gun Metal Metallic



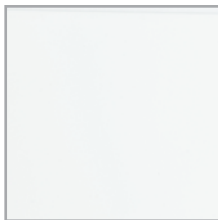
White Aluminum



Burnt Penny



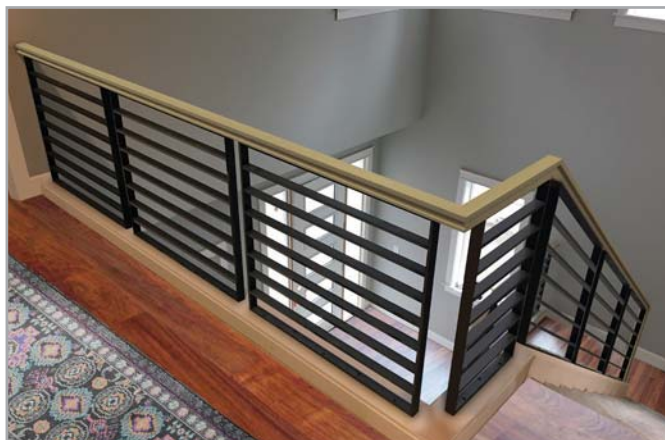
Almond



White



Black (satin)



Linear Metal Panels see pages 48-49

These product categories available in powder coat finishes ¹	Interior	Exterior
Iron Balusters for interior use		
Iron Collection- Pacific	✓	
Iron Collection- Europe	✓	
Aluminum Newels 2" square- inside mount cable, cable fittings *	✓	✓
Stainless Steel Square Series (1.57")	✓	✓
Stainless Steel Rectangular Series	✓	✓
Stainless Steel Round Series (1.5" & 1.9")	✓	✓
Stainless Steel 2" Square Newels	✓	✓
Infills (for use with stainless steel newels)		
Round Bars & Accessories	✓	✓
Flat Bars & Accessories	✓	✓
Glass Infill Accessories	✓	✓
Linear Panels	✓	✓
Designer Metal Panels	✓	✓
Designer Wire Mesh Infill	✓	✓

¹ Not all parts are conducive to being powder coated.

* Cable & cable fittings are 316 Stainless Steel and are not available powder coated.

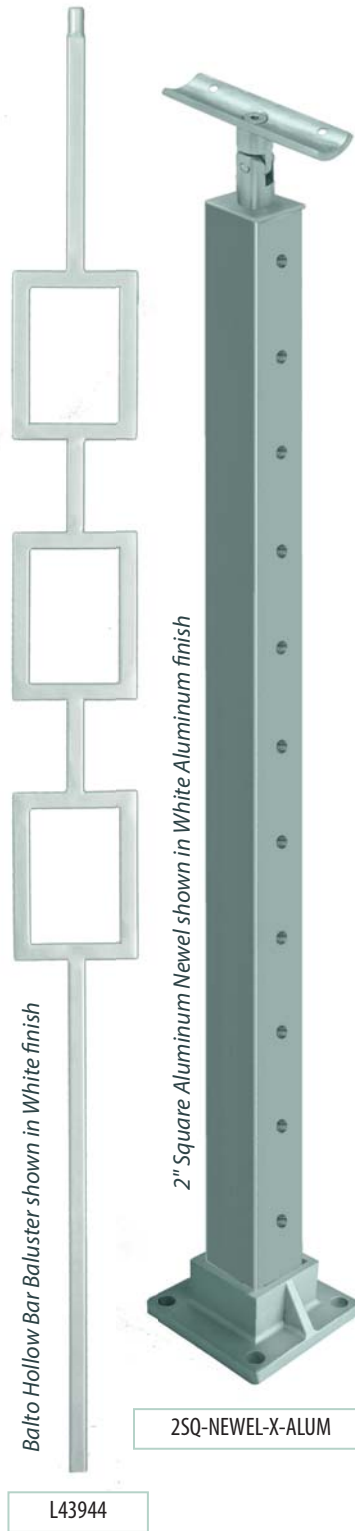
Custom Powder Coating Examples



Iron Balusters shown in Copper Vein finish



Modern Metal 1.5" Round Rail, Newels and 1/2" Round Bar Infill shown in Burnt Penny finish



Balto Hollow Bar Baluster shown in White finish

2" Square Aluminum Newel shown in White Aluminum finish

L43944

2SQ-NEWEL-X-ALUM



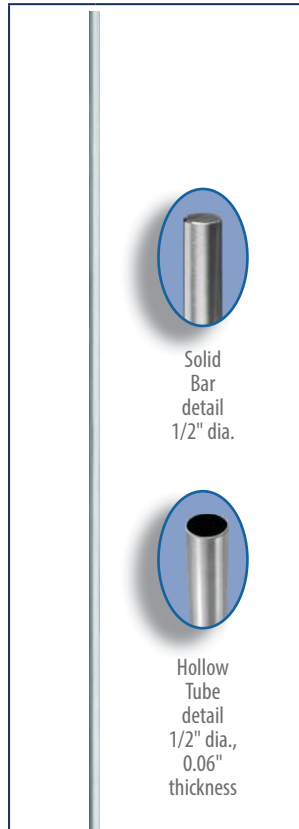
Modern Metal 1.57" Square Rail, Newel and Flat Bar Infill shown in Black finish



Detail of Venetian Series L65044 Round Hollow Bar Baluster shown in Poly Gold Vein

Wood Stair systems with vertical stainless steel balusters!

Order A-501-K Epoxy for use with wood components. See page 11.

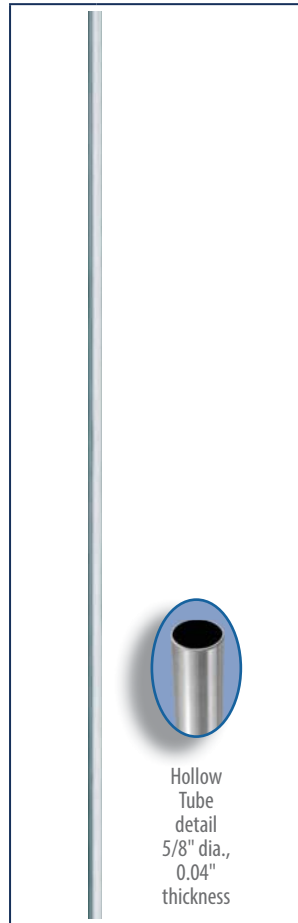


Balusters - round solid bar
1/2" diameter x 44"L

Type	Use	Part Number
304	Interior	1544-050-44-304
316	Exterior	1544-050-44-316

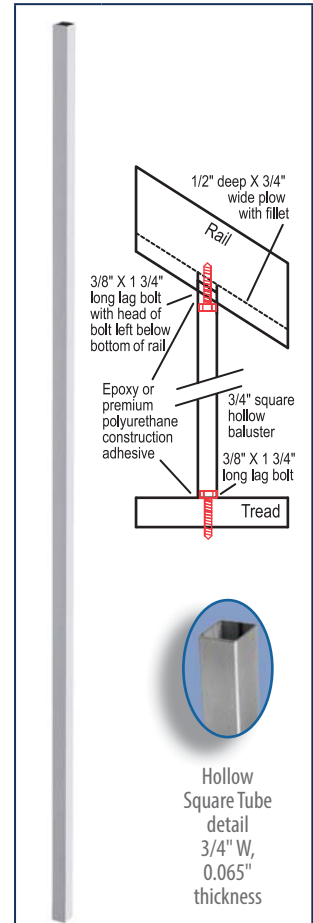
Balusters - round hollow tube
1/2" diameter x 44"L

304	Interior	1644-050-44-304
316	Exterior	-



Balusters - round hollow tube
5/8" diameter x 44"L

Type	Use	Part Number
304	Interior	1644-062-44-304
316	Exterior	1644-062-44-316



Balusters - square hollow tube
3/4" x 3/4" x 44"L

Type	Use	Part Number
304	Interior	1744-075-44-304

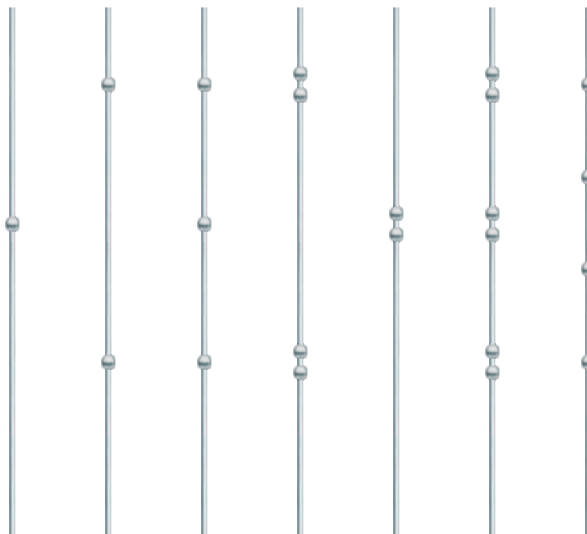
Order lag screws: stainless steel,
2 per baluster LAG38x175

Stainless Steel balusters with decorative round stainless steel accents

Use our 1/2" diameter 304 balusters above with this round sphere to design your very own unique stairway for interior use!

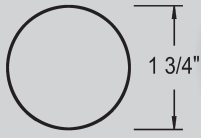


Use these spheres on horizontal applications too. We also have a sphere end cap for horizontal use. See pages 29 & 44.



Installation tips: Use Q-ultra clean (see page 71) to clean the areas of the baluster where the sphere will be attached as well as the inside of the sphere (pull cloth through hole). Be sure to completely wipe off the cleaner. Find the location on your baluster where you want the bottom of the sphere(s) to be located and use masking tape to carefully wrap that spot creating a "seat" for the sphere to rest on while the glue is curing. Apply stainless steel glue (page 71) to the baluster where the sphere will be and slide the sphere into place. Wipe off excess glue. After the glue has cured, remove the masking tape and remove any visible glue with acetone.

6039 Round Rail



6039

Combine the warmth of wood with stainless steel to form a unique wall rail system or over the post stairway utilizing our stainless steel newels with stainless steel or wood balusters. Stainless Steel fittings are to be used with our 6039 1 3/4" full round rail and attached to the rail with plastic connector (6039-CON) and epoxy.



Wall Rail Bracket -
rail mounting hardware included (see gauge 6039-GAU2 to drill surface of rail). Wall screws not included. Setback is 2.95"



6039-686-SS



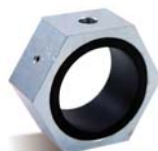
6039-CON

Plastic connector with screw for end caps & fittings



6039-GAU4

Gauge to align and drill end of rail for 6039-CON



6039-GAU2

Gauge to drill hole in 6039 round rail

Accessories



A-501-K

Fast Setting Epoxy Kit includes 5 oz A-7 epoxy, A-24 nozzle & piston, will install 30-40 balusters both ends. For use with standard caulking gun (gun not included).

A-24 Extra Nozzle for A-501-K



Over The Post with
Stainless Steel Balusters



Over The Post with
5230 Wood Balusters

Stainless Steel Fittings for 6039 Round Rail



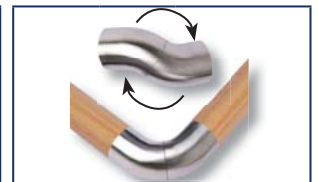
90° Curved Quarterturn -
Can also be used as Up or Over Easing

Type	Use	Part Number
304	Interior	6039-600-SS



90° Quarterturn

Type	Use	Part Number
304	Interior	6039-601-SS



Articulated Angle

Type	Use	Part Number
304	Interior	6039-604-SS

Order 6039-CON Connector: 2 required per fitting



Pivoting Connector

Type	Use	Part Number
304	Interior	6039-605-SS



Pivoting Connector

Type	Use	Part Number
304	Interior	6039-670-SS



Rail to Rail Connector -
for wall rail applications. Be sure to properly support with wall rail brackets

Type	Use	Part Number
304	Interior	6039-603-SS

Order 6039-CON Connector: 2 required per fitting



Round End Cap

Type	Use	Part Number
304	Interior	6039-660-SS



Flat End Cap

Type	Use	Part Number
304	Interior	6039-665-SS

Order 6039-CON Connector: 1 required per fitting



#14 wall screws not provided

Wall Rosette - 3.75" diameter

Type	Use	Part Number
304	Interior	6039-680-SS

Note: secure rail with set screw and adhesive. (#14 wall screws not provided) make sure plate is properly secured to wall.






6039-680-SS


6039-601-SS

Return to the wall using a combination of our 90° Quarterturn and Wall Rosette

Full View Series glass systems offer the ultimate transparency

-  • Cap rails for glass-rectangular & round
-  • Base shoe for glass-floor and fascia mount
-  • Base flanges for glass
-  • Fascia & other glass adapters

For interior or exterior
Also see Square Series Glass Infill (pages 30-32) and Round Series Glass Infill (pages 45-47)



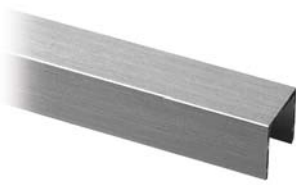
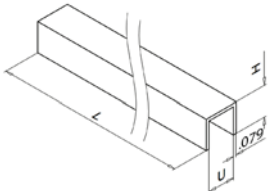
step one

Choose your cap rail



Cap Rails & Fittings

Rectangular Cap Rail Systems

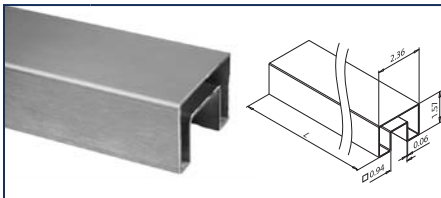



Glass Rectangular Cap Rail - tape installation			
Type	Use	Part Number	Size
Aluminum	Exterior	16.6940.013.18	11/16"W x 19/32"H x 196"L for 1/2" (12.76mm) thick laminated glass, U=17/32"
Aluminum	Exterior	16.6940.022.18	1-1/32"W x 3/4"H x 196"L for 27/32" (21.52mm) thick glass, U=7/8"



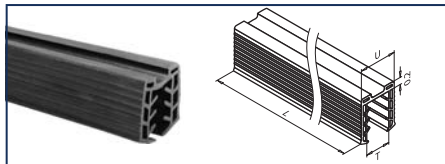



Tape - double sided adhesive for 16.6940.013.18 & 16.6940.022.18			
Type	Use	Part Number	Size
Tape	Exterior	19.1350.018.00	3/4"W x 216' L



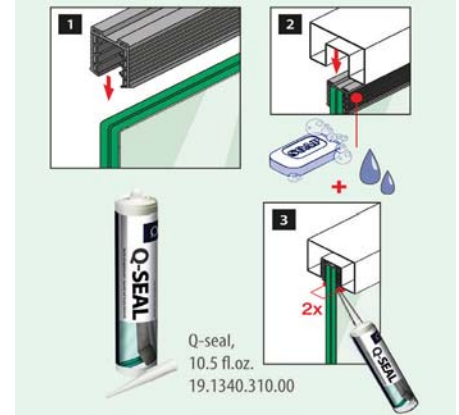
Glass Rectangular Cap Rail - gasket installation

Type	Use	Part Number	Size
304	Interior	13.6925.640.12	2.36"W x 1.57"H x 98"L, U= 15/16"
316	Exterior	14.6925.640.12	2.36"W x 1.57"H x 196"L, U= 15/16"



Gasket - for rectangular or 1.66" diameter round cap rails

Type	Part Number	Glass Thickness	Size
Rubber	19.5042.211.00	1/2"-9/16" (12-13.52mm)	98"L, U= 15/16"
Rubber	19.5042.216.00	5/8"-11/16" (16.76-17.52mm)	
Rubber	19.5042.219.00	3/4" (19mm)	
Rubber	19.5042.011.00	1/2"-9/16" (12-13.52mm)	196"L, U= 15/16"
Rubber	19.5042.016.00	5/8"-11/16" (16.76-17.52mm)	
Rubber	19.5042.019.00	3/4" (19mm)	



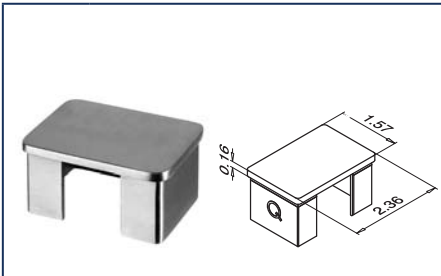
OPTIONAL:

Glass silicone, color black with nozzle included

Silicone	19.1340.310.00	10.5 fl.oz.
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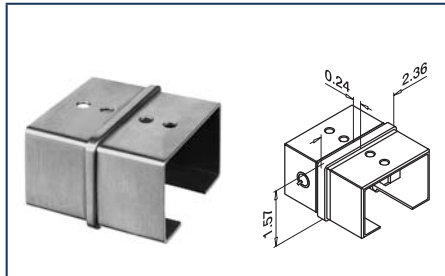


Rectangular End Cap



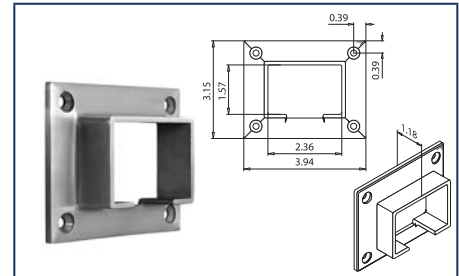
End Cap - for glass rectangular cap rail

Type	Use	Part Number	Size
304	Interior	13.6732.640.12	Projects 0.16"
316	Exterior	14.6732.640.12	



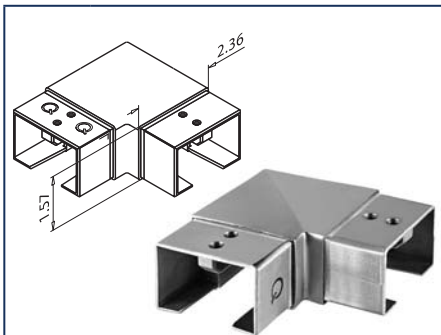
Straight Connector for glass rectangular cap rail

Type	Use	Part Number	Size
304	Interior	13.6790.640.12	adds 0.24" to length
316	Exterior	14.6790.640.12	



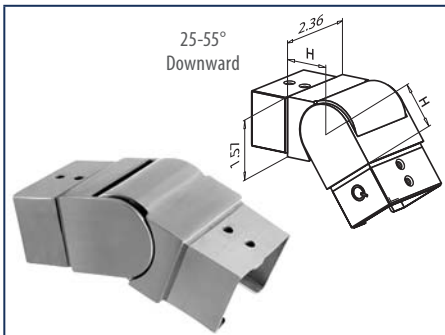
Wall Rosette - for glass rectangular cap rail

Type	Use	Part Number	Size
304	Interior	13.6505.640.12	3.94"W x 3.15"H
316	Exterior	14.6505.640.12	Order Screws: 4 QS-6



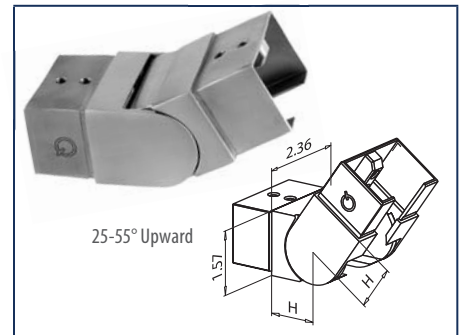
Level Quarterturn Connector - for glass rectangular cap rail

Type	Use	Part Number	Size
304	Interior	13.6313.640.12	2.36"W x 1.57"H
316	Exterior	14.6313.640.12	90° connections



Adjustable Over Easing Connector - for glass rectangular cap rail

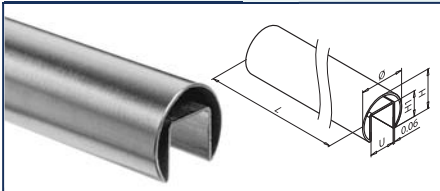
Type	Use	Part Number	Size
304	Interior	13.6302.640.12	H= 1-3/16"
316	Exterior	14.6302.640.12	



Adjustable Up easing Connector - for glass rectangular cap rail

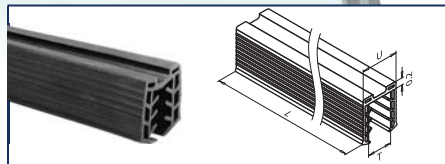
Type	Use	Part Number	Size
304	Interior	13.6312.640.12	H= 1-3/16"
316	Exterior	14.6312.640.12	

Round Cap Rail System



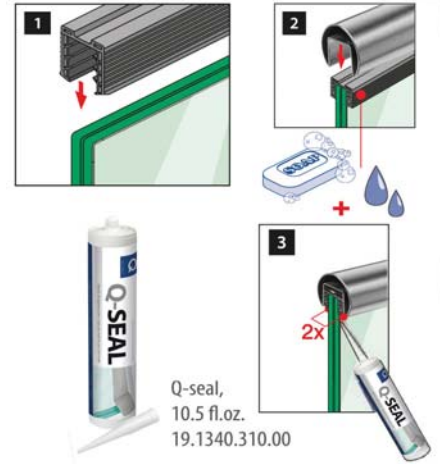
Glass 1.66" Diameter Round Cap Rail - gasket installation

Type	Use	Part Number	Size
304	Interior	13.6925.042.12	1.66"D x 1-15/32"H x 98"L, H1 & U= 15/16"
316	Exterior	-	
304	Interior	13.6920.042.12	1.66"D x 1-15/32"H x 196"L, H1 & U= 15/16"
316	Exterior	14.6920.042.12	



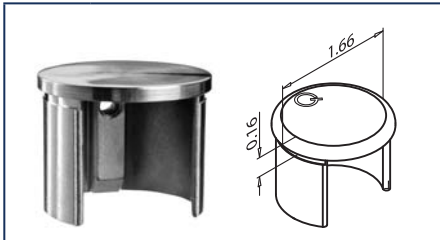
Gasket - for rectangular or 1.66" diameter round cap rails

Type	Part Number	Glass Thickness	Size
Rubber	19.5042.211.00	1/2"-9/16" (12-13.52mm)	98"L, U= 15/16"
Rubber	19.5042.216.00	5/8"-11/16" (16.76-17.52mm)	
Rubber	19.5042.219.00	3/4" (19mm)	
Rubber	19.5042.011.00	1/2"-9/16" (12-13.52mm)	196"L, U= 15/16"
Rubber	19.5042.016.00	5/8"-11/16" (16.76-17.52mm)	
Rubber	19.5042.019.00	3/4" (19mm)	



OPTIONAL: Glass silicone, color black with nozzle included

Silicone	19.1340.310.00	10.5 fl. oz.
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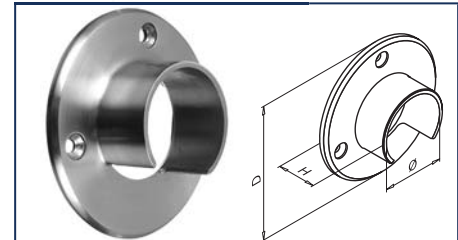
End Cap - for glass 1.66" diam round cap rail

Type	Use	Part Number	Size
304	Interior	13.6729.042.12	Projects 0.16"
316	Exterior	14.6729.042.12	



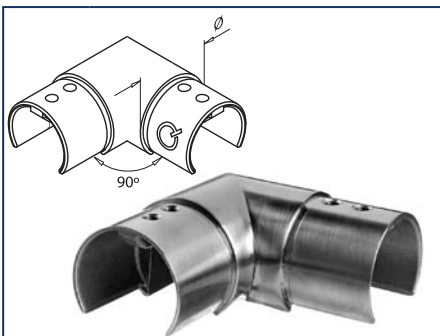
Straight Connector - for glass 1.66" diam round cap rail

Type	Use	Part Number	Size
304	Interior	13.6792.042.12	Completely concealed
316	Exterior	14.6792.042.12	



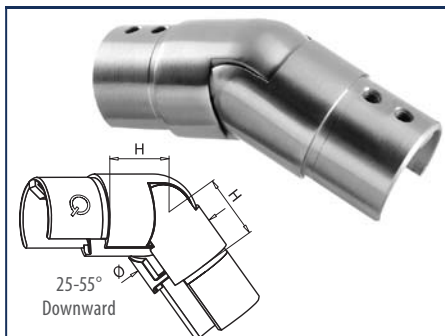
Wall Rosette - for glass 1.66" diam round cap rail

Type	Use	Part Number	Size
304	Interior	13.6505.042.12	3-35/64" diameter
316	Exterior	14.6505.042.12	Order Screws: 3 QS-6



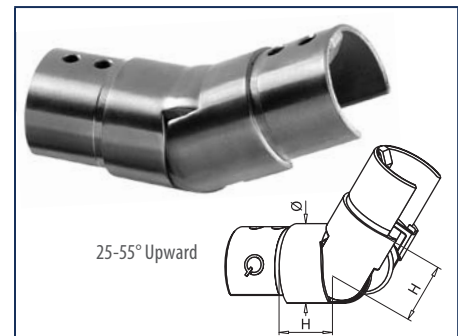
Level Quarterturn Connector - for glass 1.66" diameter round cap rail

Type	Use	Part Number	Size
304	Interior	13.6313.042.12	1.66" dia.
316	Exterior	14.6313.042.12	



Adjustable Over Easing Connector - for glass 1.66" diameter round cap rail

Type	Use	Part Number	Size
304	Interior	13.6302.042.12	H= 1-3/16"
316	Exterior	-	



Adjustable Up easing Connector - for glass 1.66" diameter round cap rail

Type	Use	Part Number	Size
304	Interior	13.6312.042.12	H= 1-3/16"
316	Exterior	-	



Our aluminum base shoe systems with stainless steel effect are available for top mount or fascia mount installations for Interior or Exterior use. They feature a stunning design and easy assembly thanks to its innovative Safety Wedge System (glass is being clamped, no drilling necessary). Top mount base shoe has optional water drainage channel for exterior use. Fascia mount shoe has drainage holes in bottom and both have optional stainless steel cladding.

Base shoe applications for extremely heavy duty commercial situations are available. Please contact us.

step two

Choose your glass mounting method

- Base shoe - top or fascia mount
- Base flanges
- Glass adapters

Base Shoe - Top Mount

Base Shoe - top mount, stainless steel effect.
Requires Safety Wedge Kit for glass installation.

Type	Use	Part Number	Size/Notes
Alum	Exterior	16.6904.300.18	1.77"w x 4.76"H x 120"L
Alum	Exterior	16.6904.600.18	1.77"w x 4.76"H x 240"L

Order Concrete Fasteners: 30 required per 10' section and 60 per 20' section. Interior- QS-36 & Exterior- QS-519. For other installations fasteners by others.



Safety Wedge Kit - includes 1 pc each 120"L of the front & back gasket, 20 pcs each of the glass "L" shims & wedges

Part Number	Glass thickness	Length
19.6904.912.00	1/2" (12mm)	120"
19.6904.913.00	1/2" (12.76mm)	
19.6904.914.00	9/16" (13.52mm)	
19.6904.917.00	5/8" (16.76mm)	
19.6904.918.00	11/16" (17.52mm)	
19.6904.919.00	3/4" (19mm)	

Tool: Use 19.6920.000.00 installation tool.

Safety Wedge Kit Installation Tool - Install and remove wedges and install back gasket

Type	Part Number
Tool	19.6920.000.00

6 easy steps using the Safety Wedge Kit

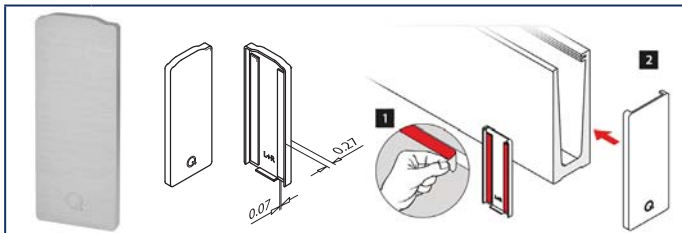
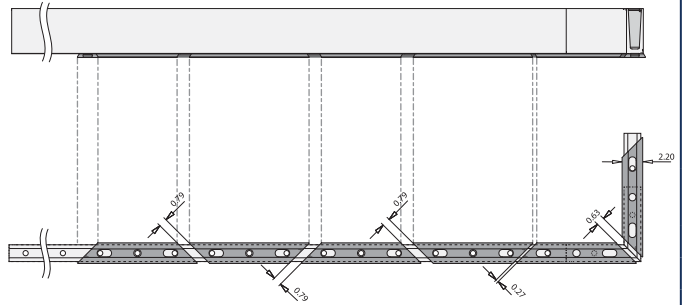
- Install Base Shoe
- Install front gasket
- Install glass shims with glass
- Install wedges
- Install back gasket
- Completed installation!

Base Shoe - Top Mount (continued)



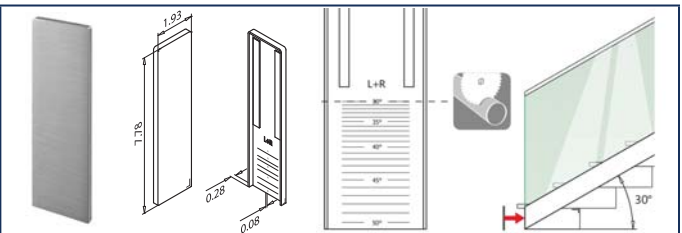
Drainage Base - for top mount base, stainless steel effect.
Allows water drainage for exterior applications.

Type	Use	Part Number	Size/Notes
Alum	Interior	-	12.78"L
Alum	Exterior	16.6948.004.18	



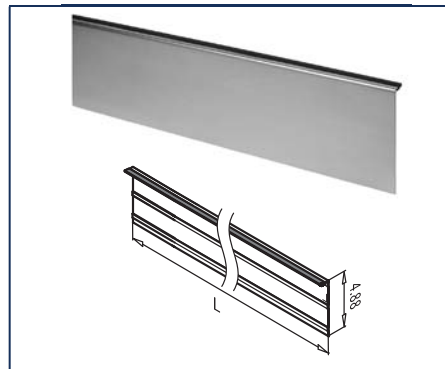
End cap-level - for top mount base, stainless steel effect.
Apply with 2 sided tape, included.

Type	Use	Part Number	Size/Notes
Zinc	Exterior	10.6734.004.20	Left or right side. Use Zinc with cladding
Alum	Exterior	16.6734.004.18	



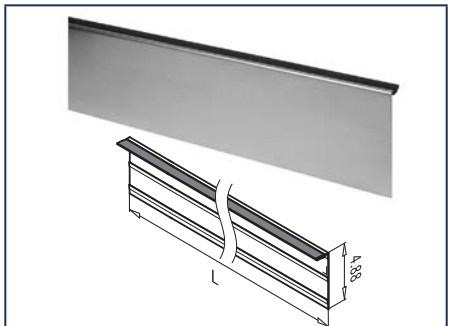
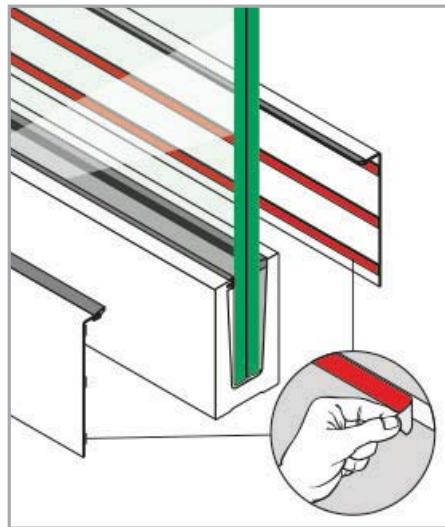
End cap-rake for top mount base, stainless steel effect. Backside has guide to cut height for correct angle. Apply with 2 sided tape, included.

Type	Use	Part Number	Size/Notes
Zinc	Interior	-	Left or right side. For use with cladding must cut cladding before cap
Alum	Exterior	16.6736.004.18	



Stainless Steel Cladding - front side of top mount base shoe. Apply with 2 sided tape included.

Type	Use	Part Number	Size/Notes
304	Interior	13.6920.004.12	4.88"H x 98"L
316	Exterior	14.6920.504.12	4.88"H x 196"L



Stainless Steel Cladding - back side of top mount base shoe. 4.88"H x 98"L. Apply with 2 sided tape included.

Type	Use	Part Number	Glass Thickness
304	Interior	13.6921.124.12	1/2" (12mm)
304	Interior	13.6921.134.12	1/2"-9/16" Lam (12.76-13.52mm)
304	Interior	13.6921.174.12	5/8"-11/16" Lam (16.76-17.52mm)
304	Interior	13.6921.194.12	3/4" (19mm)



back side of top mount base shoe. 4.88"H x 196"L. Apply with 2 sided tape included.

316	Exterior	14.6922.124.12	1/2" (12mm)
316	Exterior	14.6922.134.12	1/2"-9/16" Lam (12.76-13.52mm)
316	Exterior	14.6922.174.12	5/8"-11/16" Lam (16.76-17.52mm)
316	Exterior	14.6922.214.12	27/32" Lam (20.76-21.52mm)



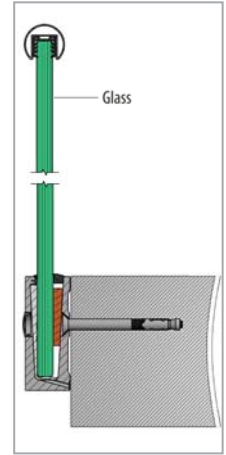
Base Shoe- Fascia Mount

Base Shoe - fascia mount, stainless steel effect. Requires Safety Wedge Kit for glass installation and plugs or cladding.

Type	Use	Part Number	Size/Notes
Alum	Exterior	16.6905.300.18	1.85"W x 4.69"H x 120"L Requires 24 plugs or cladding
Alum	Exterior	16.6905.600.18	1.85"W x 4.69"H x 240"L Requires 48 plugs or cladding

water drainage 0.158" dia. holes

Order Concrete Fasteners: 24 required per 10' section and 48 per 20' section. Interior- QS-36 & Exterior- QS-519. For other installations fasteners by others.



Inside Corner - fascia mount shoe, stainless steel effect. Requires Safety Wedge kit for glass installation and plugs (2) or cladding.

Type	Use	Part Number	Size/Notes
Alum	Interior	-	1.85"W x 4.69"H x 7.87"L (outside measurement)
Alum	Exterior	16.6315.005.18	

Order Concrete Fasteners: 2 required per section. Interior- QS-36 & Exterior- QS-519. For other installations fasteners by others.

Outside Corner - fascia mount shoe, stainless steel effect. Requires Safety Wedge kit for glass installation and plugs (2) or cladding.

Type	Use	Part Number	Size/Notes
Alum	Interior	-	1.85"W x 4.69"H x 7.87"L (outside measurement)
Alum	Exterior	16.6316.005.18	

Order Concrete Fasteners: 2 required per section. Interior- QS-36 & Exterior- QS-519. For other installations fasteners by others.

Safety Wedge Kit - includes 1 pc each 120"L of the front & back gasket; 20 pcs each of the glass "L" shims & wedges

Part Number	Glass thickness	Length
19.6904.912.00	1/2" (12mm)	120"
19.6904.913.00	1/2" (12.76mm)	
19.6904.914.00	9/16" (13.52mm)	
19.6904.917.00	5/8" (16.76mm)	
19.6904.918.00	11/16" (17.52mm)	
19.6904.919.00	3/4" (19mm)	

Tool: Use 19.6920.000.00 installation tool.

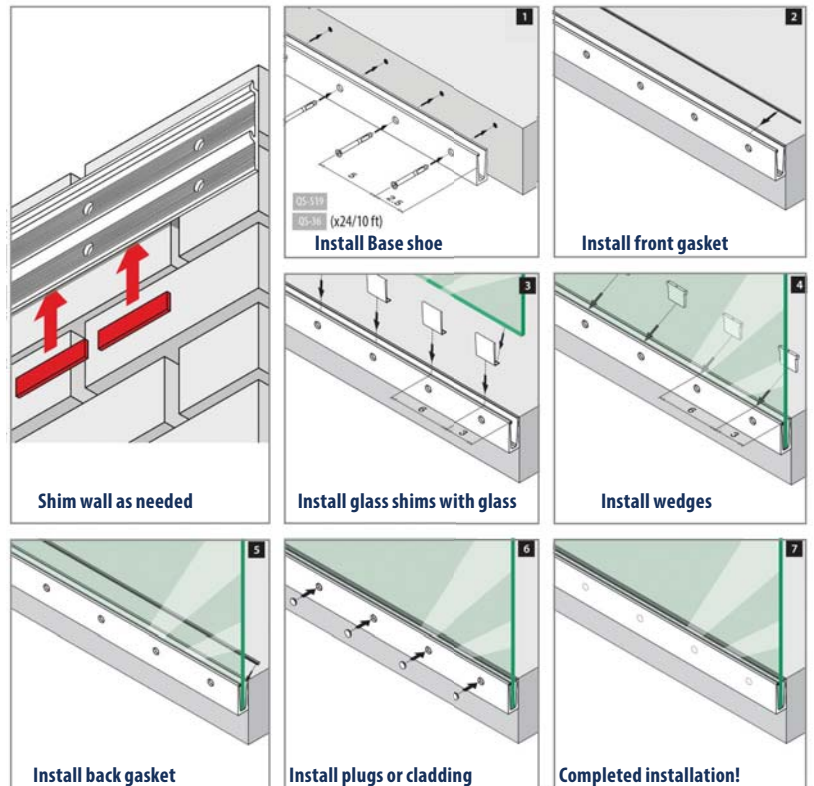
For details - see page 15 or 71

Safety Wedge Kit Installation Tool - Install and remove wedges and install back gasket

Type	Part Number
Tool	19.6920.000.00

Shims - plastic for fascia mount base shoe

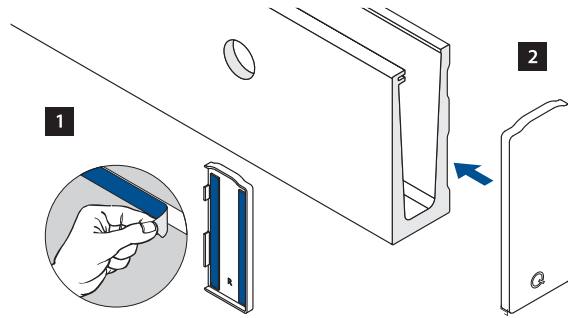
Type	Part Number	Size
Shims	19.6921.000.00	520 pc set- 1, 2, 3, 4, 5mm thick



Base Shoe - Fascia Mount (continued)

Plugs - fascia mount base shoe, inside & outside corners.
Don't need if using Stainless Steel cladding.

Type	Use	Part Number	Size/Notes
	Interior	-	1.10" outside diameter
Plastic	Exterior	24.6922.007.36	



End Cap - LEFT side level for fascia mount base, stainless steel effect.
Apply with 2 sided tape, included.

Type	Use	Part Number	Size/Notes
Zinc	Exterior	10.6734.105.20	Use Zinc End Cap with cladding option. 1.93"W x 4.96"H
Alum	Exterior	16.6734.005.18	2.05"W x 5.08"H

End Cap - RIGHT side level for fascia mount base, stainless steel effect.
Apply with 2 sided tape, included.

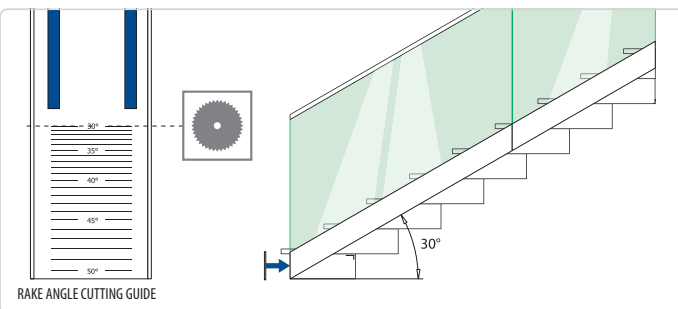
Type	Use	Part Number	Size/Notes
Zinc	Exterior	10.6735.105.20	Use Zinc End Cap with cladding option. 1.93"W x 4.96"H
Alum	Exterior	16.6735.005.18	2.05"W x 5.08"H

End Cap - LEFT side rake for fascia mount base, stainless steel effect.
Backside has guide to cut height for correct angle. Apply with 2 sided tape, included.

Type	Use	Part Number	Size/Notes
	Interior	-	For use with cladding must cut cladding before cap
Alum	Exterior	16.6736.005.18	

End Cap - RIGHT side rake for fascia mount base, stainless steel effect.
Backside has guide to cut height for correct angle. Apply with 2 sided tape, included.

Type	Use	Part Number	Size/Notes
	Interior	-	For use with cladding must cut cladding before cap
Alum	Exterior	16.6737.005.18	



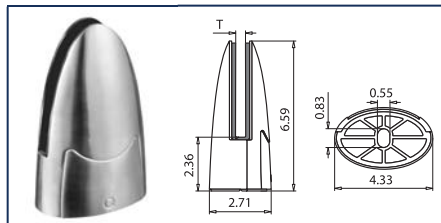
Close up of backside of rake angle End Cap

Stainless Steel Cladding - front side of fascia mount base shoe. Apply with 2 sided tape included

Type	Use	Part Number	Size/Notes
304	Interior	13.6920.005.12	4-7/8"H x 98"L
Alum*	Exterior	16.6920.005.18	4-7/8"H x 98"L
316	Exterior	14.6920.505.12	4-7/8"H x 196"L

*Stainless Steel effect

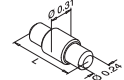
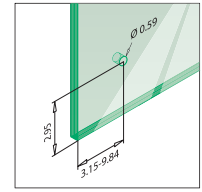
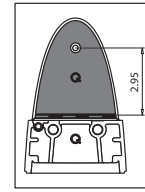
Base Flanges



Base Flange - 4.33"W x 2.71"D x 6.59"H.
Security Pin optional.

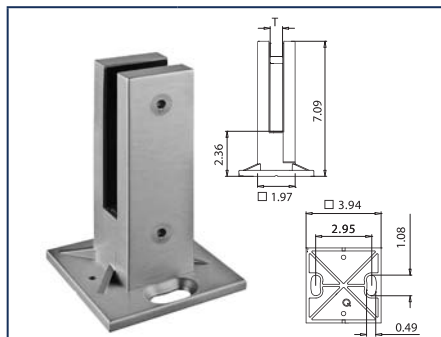
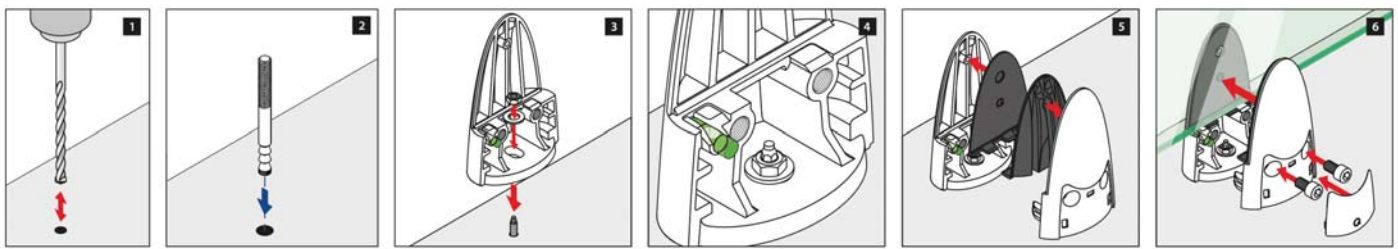
Type	Use	Part Number	Size/Notes
304	Interior	-	Monolithic tempered glass 1/2" (12mm) thick
316	Exterior	14.6012.000.12	

Order Concrete Fasteners: 1 per flange.
Interior- QS-238 & Exterior- QS-239.
For other installations fasteners by others.



Security Pin - optional pin
for base flange 14.6012.000.12. Must drill glass.

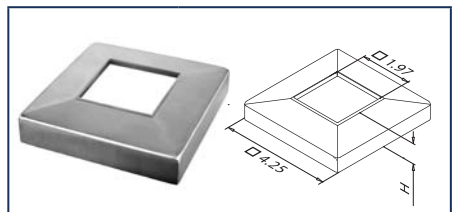
Use	Part Number	Size/Notes
Interior	-	L=1-3/16"
Exterior	19.5015.030.00	



Base Flange - 3.94"W x 1.97"D x 7.09"H
must drill hole in glass.

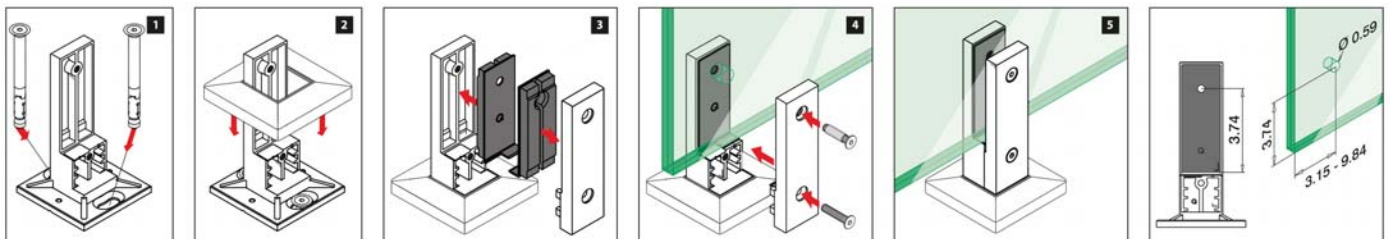
Type	Use	Part Number	Size/Notes
304	Interior	-	Monolithic tempered glass 1/2" (12mm) thick
316	Exterior	14.6212.000.12	

Order Concrete Fasteners: 2 per flange.
Interior- QS-36 & Exterior- QS-519.
For other installations fasteners by others.

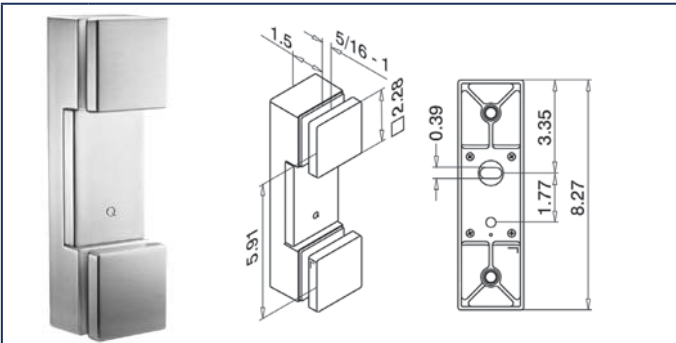


Canopy - for base flange 14.6212.000.12

Type	Use	Part Number	Size/Notes
304	Interior	-	4.25" x 4.25" x .79"H
316	Exterior	14.4511.050.12	



Fascia & Other Adapters



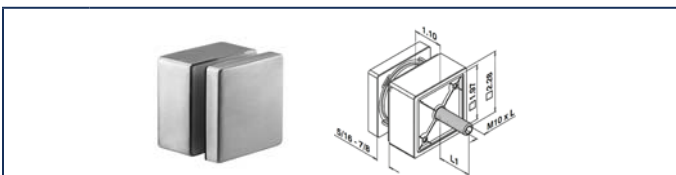
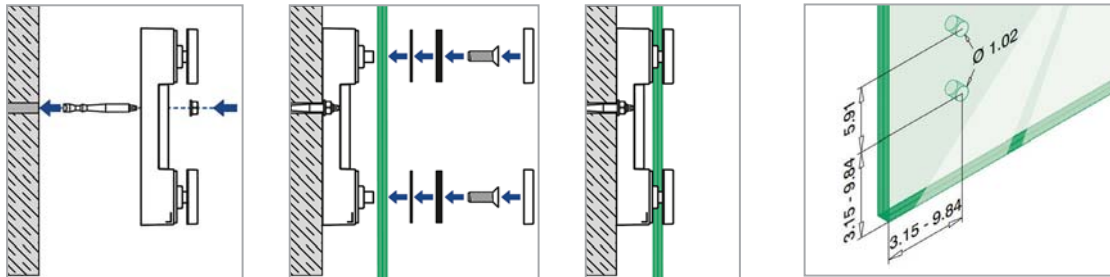
Glass Adapter- Fascia Mount, rectangular -
Accommodates glass from 5/16" to 1" thick.
Must drill two holes in glass 5.91 center to center.

Type	Use	Part Number	Size
304	Interior	-	2.28"W x 8.27"H, 2.28" sq. fronts, built-in spirit level
316	Exterior	14.4762.000.12	

Order Concrete Fasteners: 1 per adapter. QS-549. For other installations fastener by others.



Rectangular Fascia Mount



Glass Adapter- Fascia Mount, square - Use in pairs.
Accommodates glass from 5/16" to 7/8" thick. Must drill glass.

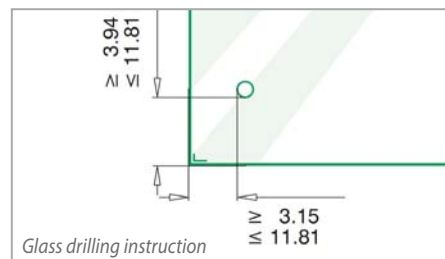
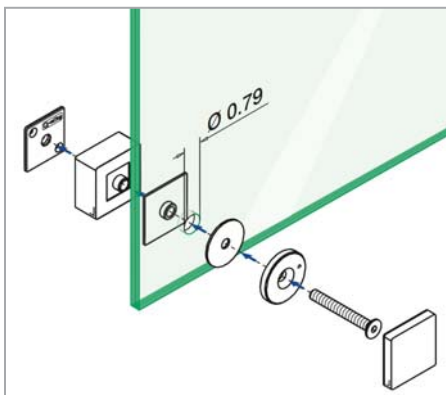
Type	Use	Part Number	Size
304	Interior	-	2.28" square,
316	Exterior	14.4747.300.12	Bolt = M10 x 3-1/8"L, 3/4" from back side (L1)

M10 x 3-1/8" L bolt provided is for fastening to metal.

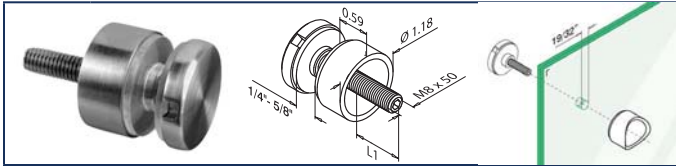
Order Concrete Fasteners: 1 per adapter. QS-243.
For other installations screw to be provided by other in comparable size.



Square Fascia Mount



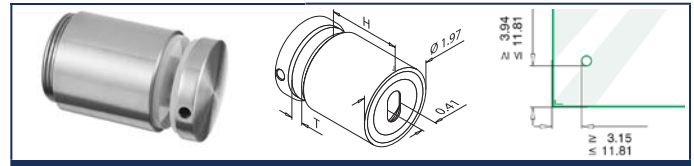
Glass drilling instruction



Glass Adapter, Fascia Mount, flat - Accommodates glass from 1/4" to 5/8" thick. Must drill glass (19/32" hole).

Type	Use	Part Number	Size
304	Interior	-	1.18" dia. x 0.59" base.
316	Exterior	14.0746.000.12	Screw is M8 x 2". L1 = 1/2" to 7/8".

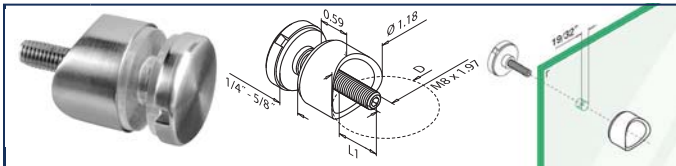
Tool: Wrench 19.0702.030.00 required. M8 x 2" L bolt provided is for fastening to metal. For other installations screw to be provided by other in comparable size.



Glass Adapter Fascia Mount, flat - adjustable for uneven walls. Use in pairs. Must drill glass (1.02" hole).

Type	Use	Part Number	Size
304	Interior	13.0749.300.12	Glass thickness (T) 1/2" to 1" (12.76-25.52mm)
316	Exterior	14.0749.300.12	1.97" diameter x 1-3/16" base projection
304	Interior	13.0749.400.12	Glass thickness (T) 5/16" to 1" (8.0-25.52mm)
316	Exterior	14.0749.400.12	1.97" diameter x 1-9/16" base projection

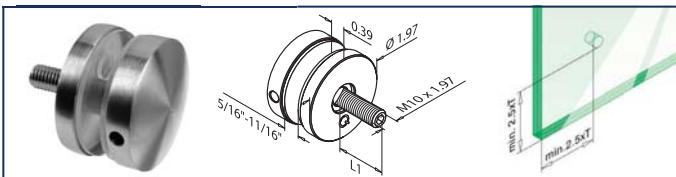
Tool: Wrench 19.0702.050.00 required. **Order Concrete Fasteners:** QS-243 and QS-533. For other installations fastener to be provided by other.



Glass Adapter - 1.5" diameter newel. Accommodates glass from 1/4" to 5/8" thick. Must drill glass (19/32" hole).

Type	Use	Part Number	Size
304	Interior	-	1.18" dia. x 0.59" base.
316	Exterior	14.0746.038.12	Screw is M8 x 2". L1 = 1/2" to 7/8".

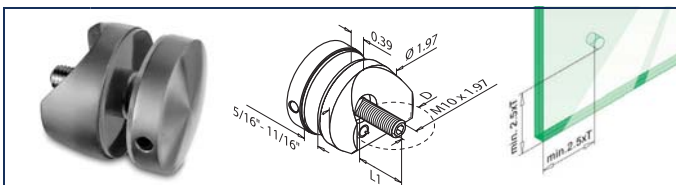
Tool: Wrench 19.0702.030.00 required. M8 x 2" L bolt provided is for fastening to metal. For other installations screw to be provided by other in comparable size.



Glass Adapter, Fascia Mount, flat - Accommodates glass from 5/16" to 11/16" thick (T). Must drill glass (25/32" hole).

Type	Use	Part Number	Size
304	Interior	13.0747.000.12	1.97" dia x 0.39" base.
316	Exterior	14.0747.000.12	Screw is M10 x 2". L1 = 3/8" to 13/16".

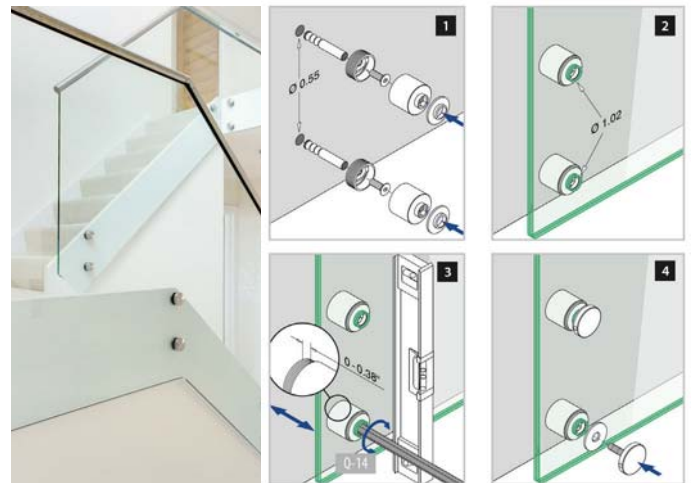
Tool: Wrench 19.0702.050.00 required. M10 x 2" L bolt provided is for fastening to metal. **Order Concrete Fasteners:** 1 per adapter. QS-243. For other installations screw to be provided by other in comparable size.



Glass Adapter - 1.5" diameter newel. Accommodates glass from 5/16" to 11/16" thick (T). Must drill glass (25/32" hole).

Type	Use	Part Number	Size
304	Interior	13.0747.038.12	1.97" dia x 0.39" base.
316	Exterior	14.0747.038.12	Screw is M10 x 2". L1 = 3/8" to 13/16".

Tool: Wrench 19.0702.050.00 required. M10 x 2" L bolt provided is for fastening to metal. **Order Concrete Fasteners:** 1 per adapter. QS-243. For other installations screw to be provided by other in comparable size.



Glass Installation Tool - for adapters with round plates

Type	Use	Part Number
Tool	63/64" to 1-1/10" diameter	19.0702.030.00
Tool	1.75" to 2" diameter	19.0702.050.00

step three

Order required screws and accessories



These accessories are a must for every job, see page 71.



- Square newels: wood, aluminum or stainless steel
- Rail: square, round and other- wood or stainless steel
- Infill: Designer metal, flat bars, round bars, cable & glass
- For interior or exterior

Square Series offers a clean contemporary lineal appearance.

step one

Choose your newel

- a. Square wood newels such as our Avenue i and Malta Series
- b. Stainless Steel 1.57" and 2" newels
- c. Aluminum 2" newels (see page 58)

(For more wood newel options, see our full-line catalog. Exterior wood newels by quotation.)



Newels & Newel Components

Newels - The Oak Pointe advantage. Order your newels and machine them on the job or have us cut, drill or tap your newels at our plant prior to shipment.

Square Newels¹ - 1.57" square, 0.08" thick wall

Type	Use	Part Number	Size
304	Interior	13.4913.040.12	1.57" x 1.57" x 38" L (40 x 40 mm)
316	Exterior	14.4913.040.12	

Square Newel - 2" square, 0.125" thick wall

316	Exterior	25QL-NEWEL-X-316	2" x 2" x (L) see details on pg 59
-----	----------	------------------	------------------------------------

1. Not recommended for cable systems.

Concrete Bolt - To mount square newels and newel flanges to concrete

Type	Use	Part Number	Size
Steel Zinc Plated	Interior	QS-246	D= M8 x 3" long (2 per newel)
316	Exterior	QS-247	

Make your own Newel!

See square rail/tubing on page 24 for use with flanges below and fascia mount bracket on page 23.

Canopy for 1.57" x 1.57" square newels

Type	Use	Part Number	Size
304	Interior	13.4511.040.12	4.25" x 4.25" x 1" H
316	Exterior	14.4511.040.12	

Newel Base Flange for use with 1.57" square tubes - welded connection

Type	Use	Part Number	Size
304	Interior	13.4940.040.00	Base: 4" x 4"
316	Exterior	14.4940.040.00	

Newel Base Flange for use with 1.57" square tubes - glue connection

Type	Use	Part Number	Size
304	Interior	13.4942.040.00	Base: 3.94" x 3.94"
316	Exterior	14.4942.040.00	

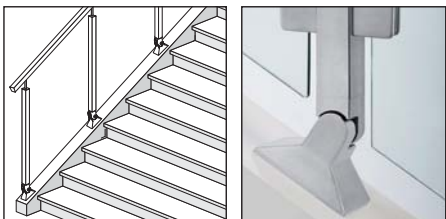
+55° -55°
Rotate, Q-glye and tighten screw

Adjustable Knee Wall Base Flange for use with 1.57" square tubes - glue connection

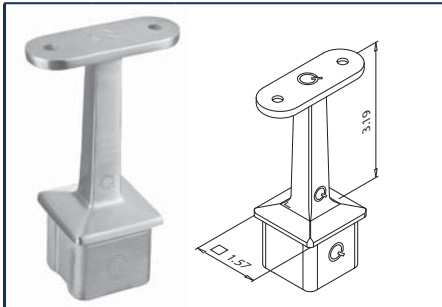
Type	Use	Part Number	Size
304	Interior	-	Base: 2.76" W x 4.72" L
316	Exterior	14.4943.040.12	

1. Apply Q-Glue to the base flange.
2. Insert the newel post into the flange.
3. The newel post is secured.

Q-Glue
1.69 fl.oz.
19.1331.000.00

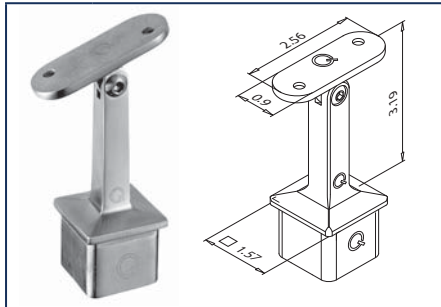


For Flat Bottom Rails



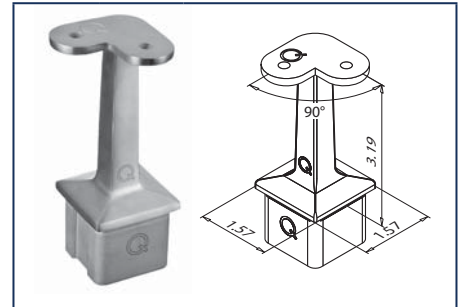
Newel Top Mount Fixed Bracket
for use with 1.57" square newels & flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.4710.000.12	Projects 3.19"
316	Exterior	14.4710.000.12	



Newel Top Mount Pivoting Bracket for use
with 1.57" square newels & flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.4718.000.12	Projects 3.19"
316	Exterior	14.4718.000.12	

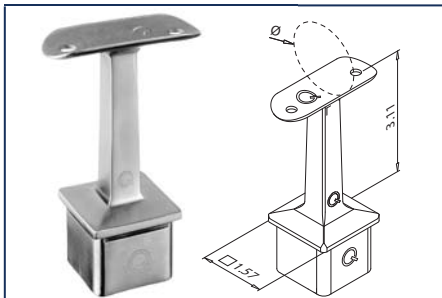


Newel Top Mount 90° Bracket
for use with 1.57" square newels & flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.4710.800.12	Projects 3.19"
316	Exterior	14.4710.800.12	

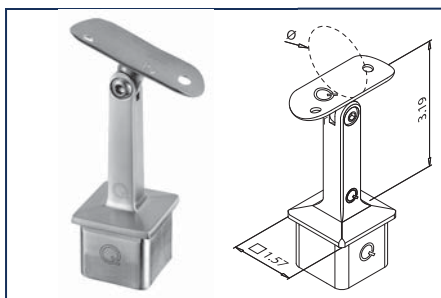
Order Screws: 2 required per bracket. QS-113 bracket to stainless, QS-6 bracket to wood. See Page 72 for details.

For Round Rails



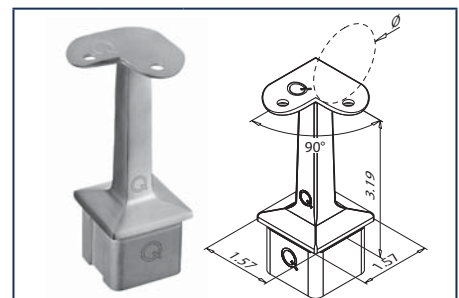
Newel Top Mount Fixed Bracket for use with
1.57" sq. newels & 1.5" dia. round rail (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.4710.038.12	Projects 3.19"
316	Exterior	14.4710.038.12	



Newel Top Mount Pivoting Bracket for use
with 1.57" sq. newels & 1.5" dia. round rail (up to 2" in wood)

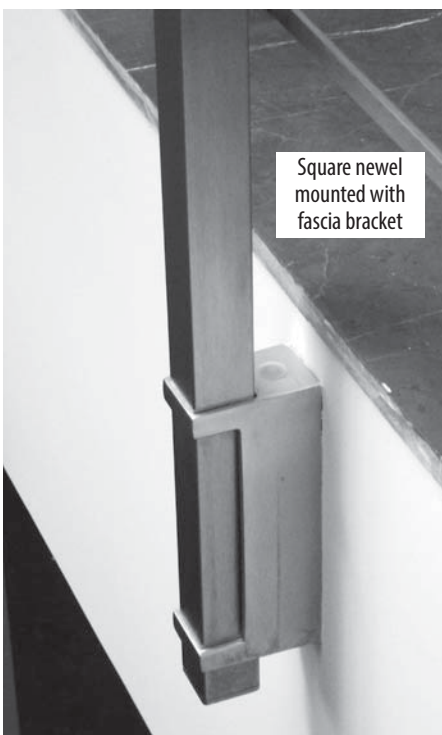
Type	Use	Part Number	Size
304	Interior	13.4718.038.12	Projects 3.19"
316	Exterior	14.4718.038.12	



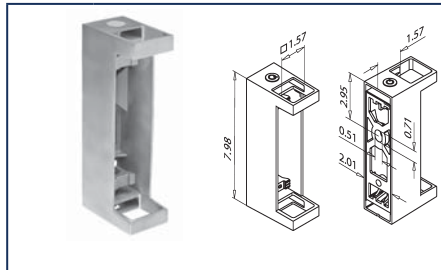
Newel Top Mount 90° Bracket for use with
1.57" sq. newels & 1.5" dia. round rail (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.4710.838.12	Projects 3.19"
316	Exterior	14.4710.838.12	

Order Screws: 2 required per bracket. QS-111 bracket to stainless, WS-111 bracket to wood. See Page 72 for details.



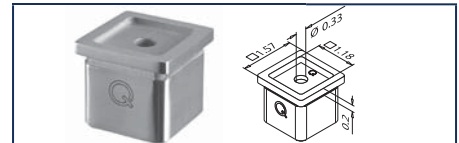
Square newel
mounted with
fascia bracket



Newel Fascia Mount Bracket
for use with 1.57" square tubes

Type	Use	Part Number	Size
304	Interior	13.4558.040.12	2.01"W x 7.98"L x 3.35" projection
316	Exterior	14.4558.040.12	

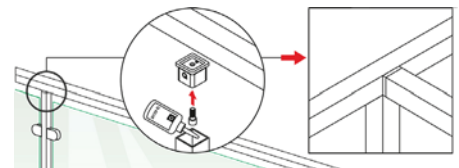
Order Concrete Fasteners: 1 per bracket.
Interior QS-232 & exterior QS-233.
For other installation fastener by others.



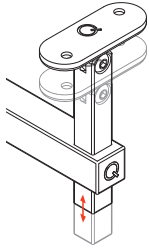
Connector - Newel to rail or rail to rail for
1.57" square newels and 1.57" square rail

Type	Use	Part Number	Size
304	Interior	13.4727.000.12	Projection 0.2"

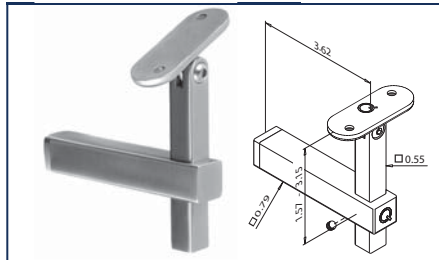
Order Screws: 1 per connector- QS-127. For wood, also order inserts INS-120.



Newel Side Mounts



Adjustable

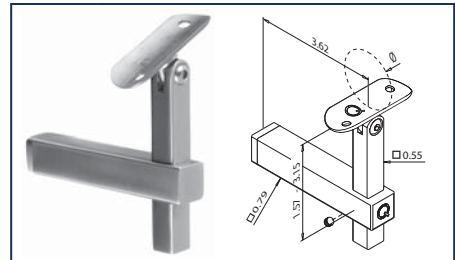


Newel Side Mount pivoting & height adjustable bracket for use with sq. newels & flat bottom rail

Type	Use	Part Number	Size
304	Interior	13.4133.000.12	3.62" setback
316	Exterior	-	

Order Screws: attach rail (2)- QS-113 bracket to stainless, QS-6 bracket to wood.

Order Screws: 1 screw to attach to newel: QS-122. For wood, also order insert INS-120.



Newel Side Mount pivoting & height adjustable bracket for use with sq. newels & 1.5" dia. round rail

Type	Use	Part Number	Size
304	Interior	13.4133.038.12	3.62" setback
316	Exterior	14.4133.038.12	

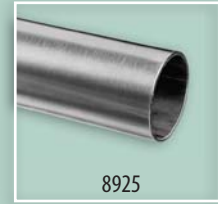
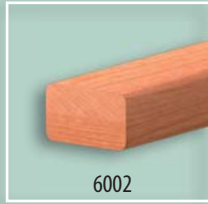
Order Screws: attach rail (2)- QS-111 bracket to stainless, WS-111 bracket to wood.

step two

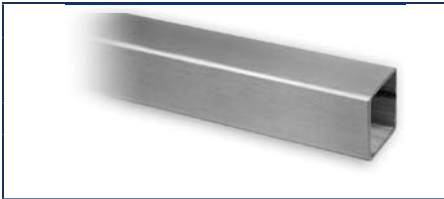
Choose your Handrail

a. Wood Handrails - see all of our wood handrails in our full line catalog. (for exterior use request exterior quote)

b. Stainless Steel Handrails - square or round

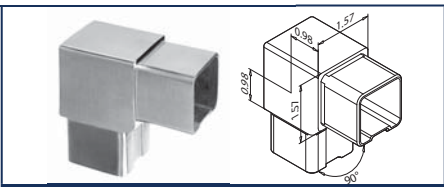
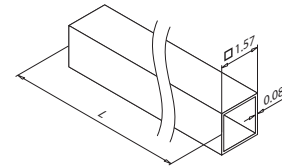


Square Rail Components (also for Square Newels)



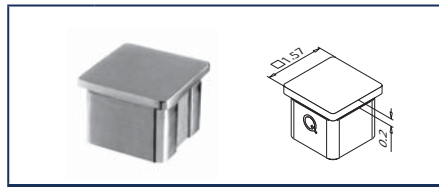
Square Handrail/Tubing 0.08" thick wall

Type	Use	Part Number	Size
304	Interior	13.4925.040.12	1.57" x 1.57" x 98" (40mm x 40mm)"
316	Exterior	-	
304	Interior	13.4900.040.12	1.57" x 1.57" x 196" (40mm x 40mm)"
316	Exterior	14.4900.040.12	



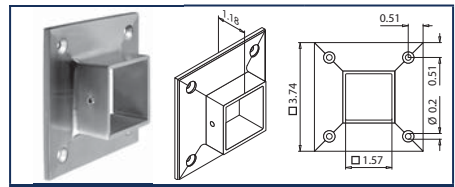
Connector- 90 degree for handrail 1.57" sq.

Type	Use	Part Number	Size
304	Interior	13.4301.040.12	1.57" x 1.57" (40 x 40 mm)
316	Exterior	14.4301.040.12	



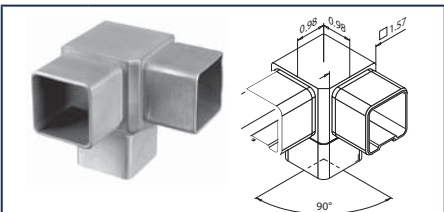
End Cap for handrail 1.57" square

Type	Use	Part Number	Size
304	Interior	13.4732.040.12	Projection 0.2"
316	Exterior	14.4732.040.12	



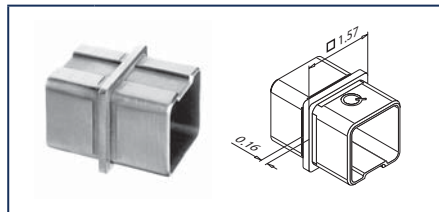
Wall Rosette for handrail 1.57" square

Type	Use	Part Number	Size
304	Interior	13.4505.040.12	3.74" square
316	Exterior	14.4505.040.12	Order Screws: 4 QS-6



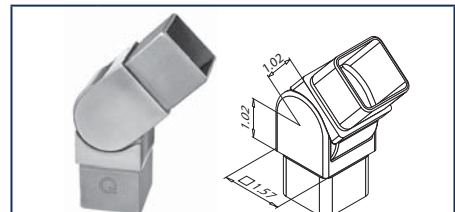
Connector- 3 way for handrail/newels 1.57" sq

Type	Use	Part Number	Size
304	Interior	13.4304.040.12	1.57" x 1.57" (40 x 40 mm)
316	Exterior	14.4304.040.12	



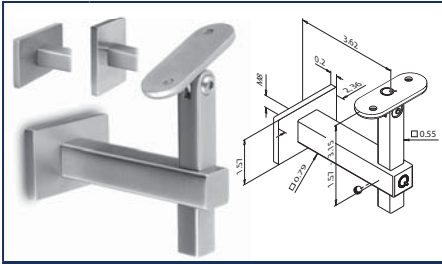
Connector - straight for handrail 1.57" square

Type	Use	Part Number	Size
304	Interior	13.4790.040.12	adds 0.16" to length
316	Exterior	14.4790.040.12	



Connector - adjustable for 1.57" square rail

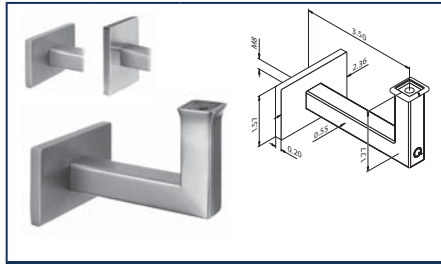
Type	Use	Part Number	Size
304	Interior	13.4312.040.12	Pivots 0° to 70°
316	Exterior	14.4312.040.12	



Wall Rail Bracket -
pivoting & height adjustable for flat bottom rail

Type	Use	Part Number	Size
304	Interior	13.4145.000.12	3.62" setback
316	Exterior	-	

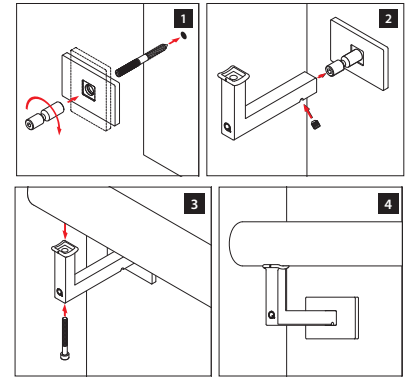
Order Screws: attach rail (2)- QS-113 bracket to stainless, QS-6 bracket to wood. 1 screw to attach to wall- QS-86



Wall Rail Bracket - for flat bottom rail

Type	Use	Part Number	Size
304	Interior	13.4111.000.12	3.50" setback
316	Exterior	14.4101.000.12	

Order Screws: attach rail (1)- QS-171. For wood also order insert INS-171. 1 screw to attach to wall- QS-86



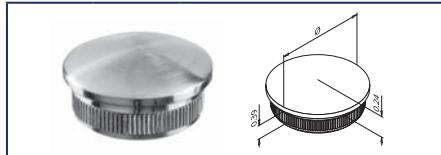
Round Rail and Components

see more connectors and 1.9" rail in the Round Series Section



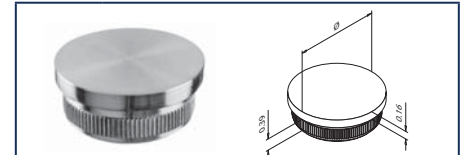
Round Handrail/Tubing 0.078" thick wall

Type	Use	Part Number	Size
304	Interior	13.8925.038.12	1.5" (38.1mm) diameter x 98"L
316	Exterior	14.8925.038.12	
304	Interior	13.0900.038.12	1.5" (38.1mm) diameter x 196"L
316	Exterior	14.0900.038.12	



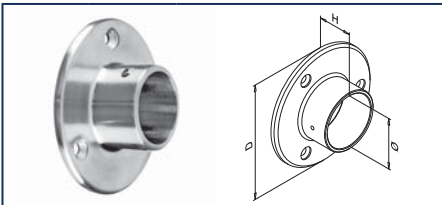
End Cap- curved top for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.5729.038.12	Projection 0.24"
316	Exterior	14.5729.038.12	



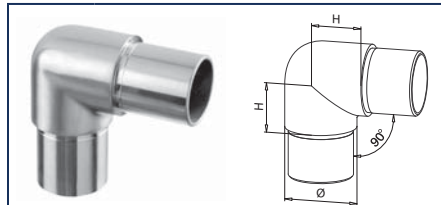
End Cap - flat top for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.5732.038.12	Projection 0.16"
316	Exterior	14.5732.038.12	



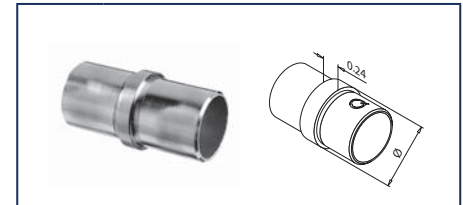
Wall Rosette for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0505.038.12	3-27/32" diameter
316	Exterior	14.0505.038.12	Order Screws: 3 QS-6



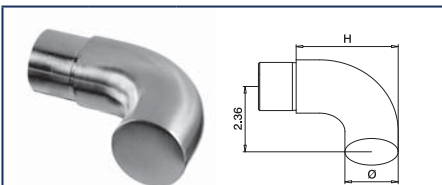
Connector 90° for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0303.038.12	1-3/16" x 1-3/16"
316	Exterior	14.0303.038.12	



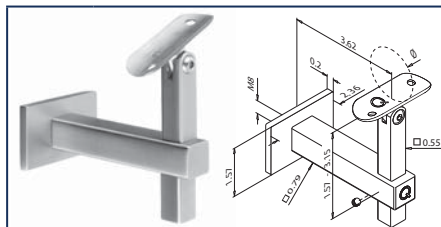
Connector - straight for handrail 1.5" dia.

Type	Use	Part Number	Size
304	Interior	13.0790.038.12	adds 0.24" to length
316	Exterior	14.0790.038.12	



Returned End/Vertical Volute for handrail 1.5" diameter

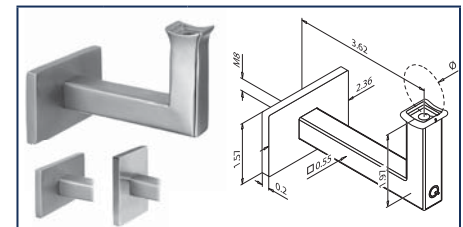
Type	Use	Part Number	Size
304	Interior	13.0739.038.12	H = 3-1/4", Projects 2.36" to rail CL
316	Exterior	14.0739.038.12	



Wall Rail Bracket-pivoting & height adjustable for 1.5" dia. round rail (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.4145.038.12	3.62" setback
316	Exterior	-	

Order Screws: attach rail (2)- QS-111 bracket to stainless, WS-111 bracket to wood. 1 screw to attach to wall- QS-86



Wall Rail Bracket for 1.5" diameter round rail

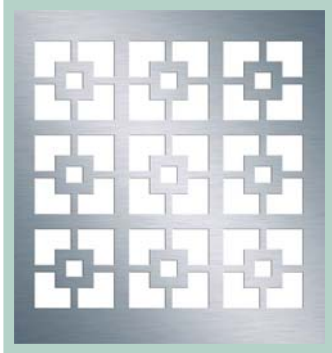
Type	Use	Part Number	Size
304	Interior	13.4111.038.12	3.62" setback
316	Exterior	14.4101.038.12	

Order Screws: attach rail (1)- QS-171. For wood also order insert INS-171. 1 screw to attach to wall- QS-86

step three

Choose your Infill

Flat Bar Infills
see page 27



Designer Metal Panels
see pages 50-53



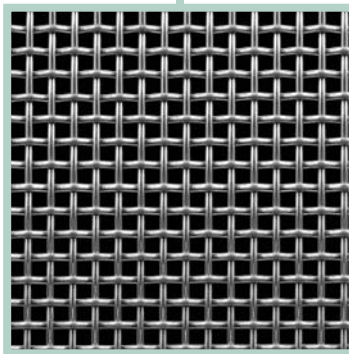
Glass Infill Components
see pages 30-32



Linear Metal Panels
see pages 48-49



Round Bar Infills
see pages 28-29



Designer Metal Series
Wire Mesh Infills
see pages 54-55

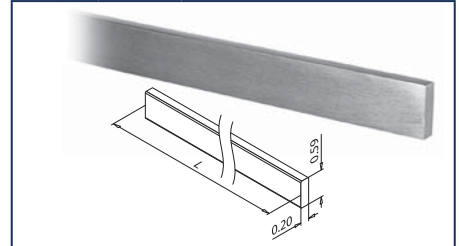


Cable Infills
see pages 56-70

Flat Bar Infill



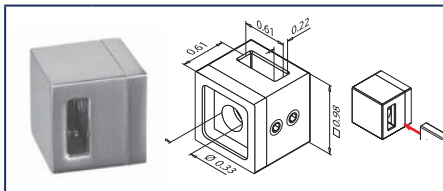
Close-up of an exterior use flat bar infill installation



Flat Solid Bar

Type	Use	Part Number	Size
304	Interior	13.4925.015.12	.20" T x .59" w x 98" L
316	Exterior	-	(5mm x 15mm)
304	Interior	13.4900.015.12	.20" T x .59" w x 196" L
316	Exterior	14.4900.015.12	(5mm x 15mm)

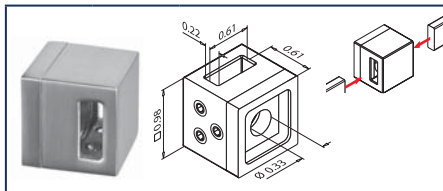
Flat bar can be ordered cut to length.



Left Crossbar Holder

for flat bar and square newels

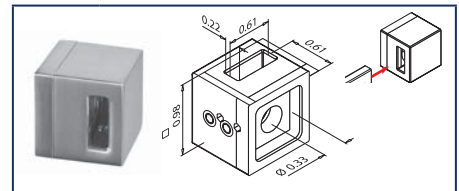
Type	Use	Part Number	Size
Zinc	Exterior	10.4822.000.20	.98" x .98" x .95" Proj



Center Crossbar Holder

for flat bar and square newels

Type	Use	Part Number	Size
Zinc	Exterior	10.4821.000.20	.98" x .98" x .95" Proj

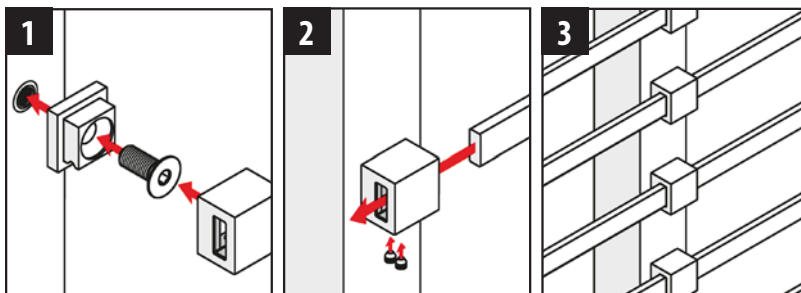


Right Crossbar Holder

for flat bar and square newels

Type	Use	Part Number	Size
Zinc	Exterior	10.4823.000.20	.98" x .98" x .95" Proj

Order Screws: 1 per holder- QS-120. For wood, also order insert INS-120.



3/4" Square Stainless Steel Balusters

304 Stainless Steel
 44" long for interior installations

Hollow Square Tube detail
 3/4" dia.,
 0.065" thickness



See page 10



1/2" Round Bar Infill

1/2" solid bar and 1/2" & 5/8" hollow tube can be ordered cut to length. For field cutting order our Tube Cutter below. 1/2" solid bar may be ordered bent to a radius. Order A-501-K Epoxy with wood newels, see page 71.



Round Solid Bar			
Type	Use	Part Number	Size
304	Interior	13.8925.012.12	0.5" dia. x 98"L (12mm x 2500mm)
316	Exterior	-	
304	Interior	13.0900.012.12	0.5" dia. x 196"L (12mm x 5000mm)
316	Exterior	14.0900.012.12	



Round Hollow Tube			
Type	Use	Part Number	Size
304	Interior	TUBE-050-236-304	0.5" dia. x 236"L
316	Exterior	-	0.06" thick wall
Steel	Interior	TUBE-050-100-SAT	0.5" dia. x 100"L
			0.04" thick wall satin black finish



Tube Cutter for hollow metal tubes	
Part Number	Notes
SS-TUBE CUTTER	1/4" to 2-5/8" Hollow

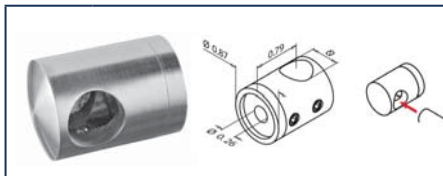


Wheel for Tube Cutter	
Part Number	Notes
SS-TUBE-CUTTING WHEEL	Extra wheel

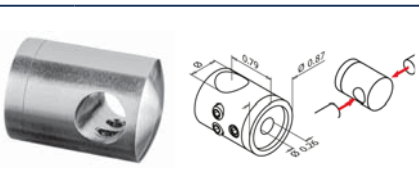


Photo Courtesy of Pike Stair Company, Anaheim, CA - www.pikestaircompany.com

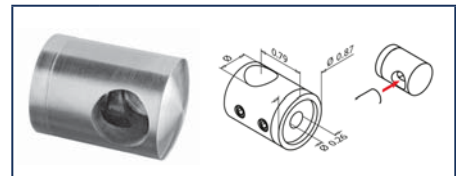
- Newels: 4000 • Rail: Custom 1 9/16" x 1 9/16"
- Solid Bar: 1/2" diameter bent to curve of rail by Oak Pointe or your local metal shop and cut to length in the field.



Left Crossbar Holder for 1/2" diameter bar & square newels			
Type	Use	Part Number	Size
304	Interior	13.0832.000.12	0.87" diameter
316	Exterior	14.0832.000.12	x 1.18" projection

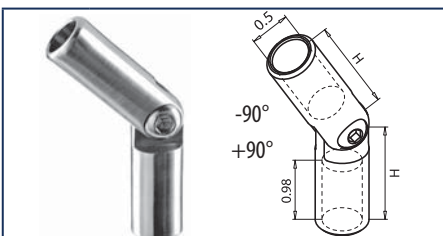


Center Crossbar Holder for 1/2" diameter bar & square newels			
Type	Use	Part Number	Size
304	Interior	13.0831.000.12	0.87" diameter
316	Exterior	14.0831.000.12	x 1.18" projection

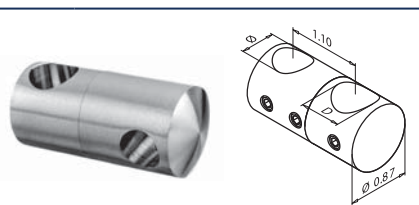


Right Crossbar Holder for 1/2" diameter bar & square newels			
Type	Use	Part Number	Size
304	Interior	13.0833.000.12	0.87" diameter
316	Exterior	14.0833.000.12	x 1.18" projection

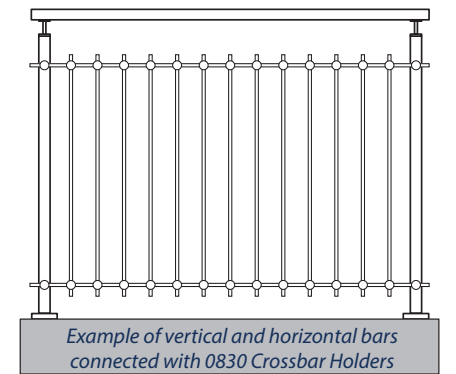
Order Screws: 1 per holder-QS-113 for holder to stainless, QS-6 holder to wood



Connector - adjustable for 0.5" dia. round bar			
Type	Use	Part Number	Size
304	Interior	13.0302.012.12	H = 1-27/64"
316	Exterior	14.0302.012.12	Outside dia. 0.63"



Vertical/Horizontal Crossbar Holder for 1/2" diameter round bar			
Type	Use	Part Number	Size
304	Interior	13.0830.012.12	0.87" diameter.
316	Exterior	-	1.10" center to center



1/2" Round Bar Infill (continued)



Newel Top Mount Fixed Bracket for use with wood newels & flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.0708.000.12	2.36" base diameter, Projects 2.44"
316	Exterior	-	

Order Screws: 3 QS-6 to attach to newel and 2 QS-113 bracket to stainless and QS-6 to wood.



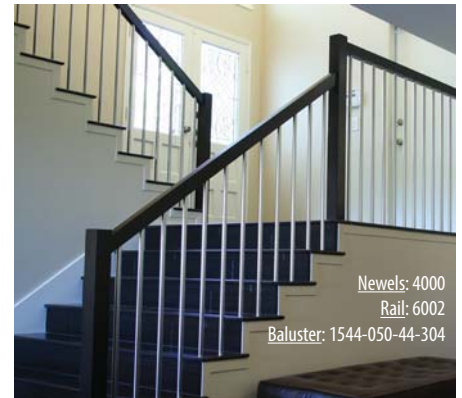
Newel Top Mount Fixed Bracket for use with wood newels & 1.5" diameter rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0708.042.12	2.36" base diameter, Projects 2.36"
316	Exterior	-	

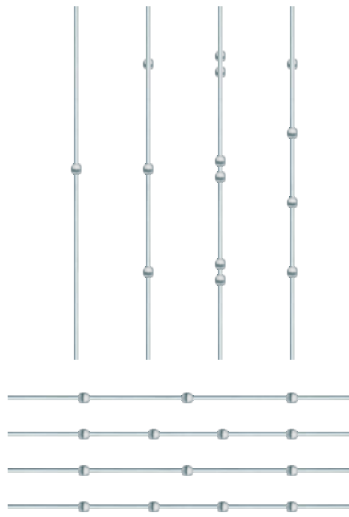
Order Screws: 3 QS-6 to attach to newel and 2 QS-111 bracket to stainless and WS-111 to wood.



Newels: ESN240
Rail: 6041
2" full round
Solid Bar: 1/2" diameter
cut to length in field.



Newels: 4000
Rail: 6002
Baluster: 1544-050-44-304



1" diameter with 1/2" through hole SPHERES illustrated to suggest ways to add interest to any installation (see page 10 for details)



Sphere End Cap - 1" diameter with 1/2" blind hole - apply to round bar with Q-glug

Type	Use	Part Number
304	Interior	SPH-1/2END-304
316	Exterior	SPH-1/2END-316



Sphere - 1" diameter with 1/2" through hole - apply to round bar vertically or horizontally with Q-glug

Type	Use	Part Number
304	Interior	SPH-1/2THRU-304
316	Exterior	-

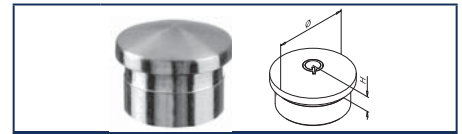
5/8" Round Bar Infill

5/8" hollow tube can be ordered cut to length or order our Tube Cutter (see page 28). Order A-501-K Epoxy with wood newels, see page 71.



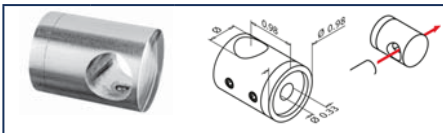
Round Hollow Tube, 0.04" thick wall

Type	Use	Part Number	Size
304	Interior	13.8925.016.12	5/8" diameter x 98"L (16mm x 2500mm)
316	Exterior	-	
304	Interior	13.0900.016.12	5/8" diameter x 196"L (16mm x 5000mm)
316	Exterior	14.0900.016.12	
Steel	Interior	TUBE-0625-100-SAT	5/8" dia. x 100"L satin black finish



End Cap - curved top for 5/8" diameter tube

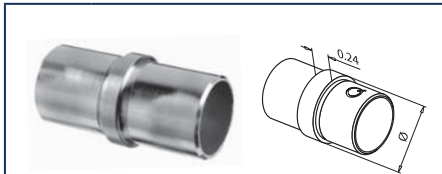
Type	Use	Part Number	Size
304	Interior	13.0729.016.12	5/32" projection
316	Exterior	14.0729.016.12	



Center Crossbar Holder for 5/8" diameter bar & square newels

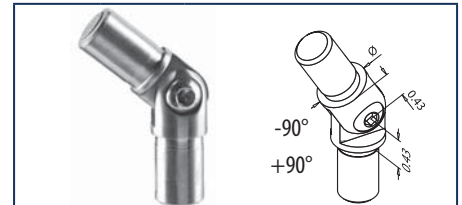
Type	Use	Part Number	Size
304	Interior	13.0840.000.12	0.98 diameter
316	Exterior	14.0840.000.12	x 1.46" projection

Order Screws: 1 per holder- QS-120. For wood also order insert INS-120.



Connector - straight for tube 5/8" diameter

Type	Use	Part Number	Size
304	Interior	13.0790.016.12	adds 0.24" to length
316	Exterior	14.0790.016.12	



Connector - adjustable for 5/8" dia. round tube

Type	Use	Part Number	Size
304	Interior	-	-
316	Exterior	14.0302.016.12	

Glass Infill Components

(note: glass is not sold by Oak Pointe)



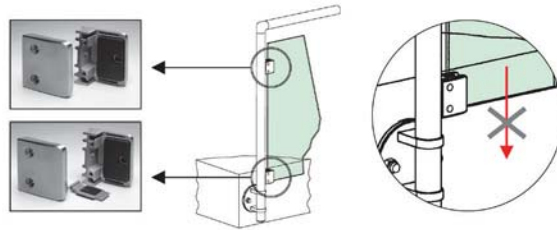
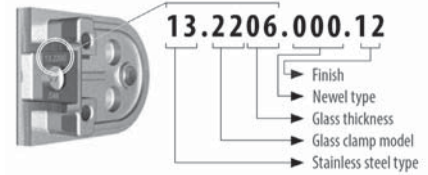
Glass Clamps

Glass clamps have been tested according to German Industry norm, DIN 12600. Glass width for outdoor use depends upon wind factor, glass type, glass thickness and clamp used. If you require test data for indoor or outdoor use please contact us. For fascia mount glass installations use Models 24 or 42 with security plate for mounting even to glass bottom or order security pins to use with clamps which are available for all models except 20 and 21.

These products have been designed and developed to meet industry norms and safety code requirements. Before installing always consult a licensed engineer to determine if your railing design meets the local building codes.

Different glass clamps have been designed for tempered and for laminated glass. This guarantees the best clamping results on glass panels.

Numbering system for glass clamps



Glass Installation Aid

Type	Use	Part Number
Tool	For glass positioning	19.0715.000.00

Model 21F - Glass Clamp
for square newels, 1.1" thick x 1.77" high x 1.77" long. Tested for indoor use only.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2100.000.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		Security Pin Not available
316	Exterior	14.2100.000.12			
-	-	19.5002.006.00	Tempered Monolithic	15/64" (6mm)	need 2/clamp
-	-	19.5002.007.00	Laminated	1/4" (6.76mm)	
-	-	19.5002.008.00	Tempered Monolithic	5/16" (8mm)	
-	-	19.5002.009.00	Laminated	5/16" (8.76mm)	
-	-	19.5002.010.00	Tempered Monolithic	3/8" (10mm)	

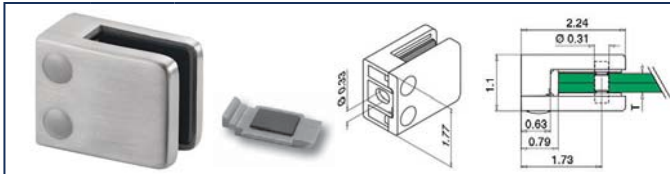
Model 24F - Glass Clamp
for square newels 1.57" thick x 2.76" high x 2.17" long. Security plate included.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2400.000.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.030.00 Security Pin available 1-3/16"L
316	Exterior	14.2400.000.12			
-	-	19.5007.013.00	Laminated	1/2" (12.76mm)	need 2/clamp
-	-	19.5007.064.00	Laminated	9/16" (13.52mm)	
-	-	19.5007.017.00	Laminated	5/8" (16.76mm)	
-	-	19.5007.018.00	Laminated	11/16" (17.52mm)	

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



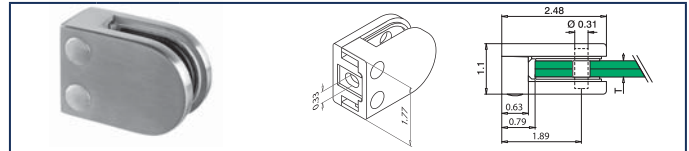
90° and straight glass clamp application see page 31.



Model 42F - Glass Clamp
for square newels 1.1" thick x 1.77" high x 2.24" long. Security plate included.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.4200.000.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size	19.5015.022.00	Security Pin available 7/8"L
316	Exterior	14.4200.000.12			
-	-	19.5003.008.00	Tempered Monolithic	5/16" (8mm)	need 2/clamp (42F) & 4/clamp (42S & 42-90)
-	-	19.5003.009.00	Laminated	5/16" (8.76mm)	
-	-	19.5003.010.00	Tempered Monolithic	3/8" (10mm)	
-	-	19.5003.011.00	Laminated	3/8" (10.76mm)	
-	-	19.5003.012.00	Tempered Monolithic	1/2" (12mm)	
-	-	19.5003.013.00	Laminated	1/2" (12.76mm)	

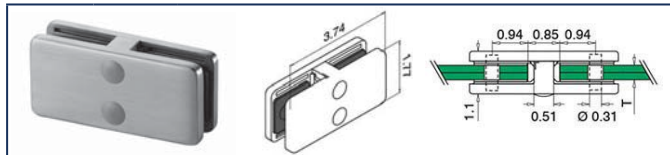
Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



Model 22F - Glass clamp for square newels, 1.1" thick x 1.77" high x 2.48" long.

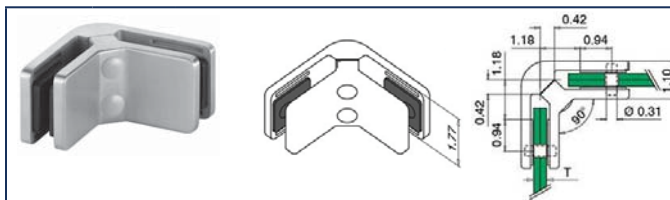
Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2200.000.12	Clamp only- order 2 pcs of rubber inlays below that match glass size	19.5015.022.00	Security Pin available 7/8"L
316	Exterior	14.2200.000.12			
-	-	19.5004.006.00	Tempered Monolithic	15/64" (6mm)	need 2/clamp
-	-	19.5004.007.00	Laminated	1/4" (6.76mm)	
-	-	19.5004.008.00	Tempered Monolithic	5/16" (8mm)	
-	-	19.5004.009.00	Laminated	5/16" (8.76mm)	
-	-	19.5004.010.00	Tempered Monolithic	3/8" (10mm)	
-	-	19.5004.011.00	Laminated	3/8" (10.76mm)	

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



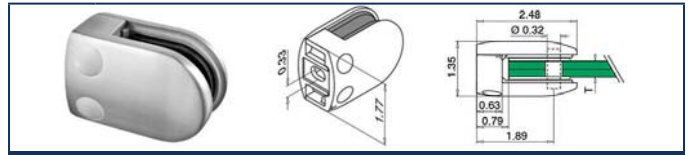
Model 42S - Glass Clamp Straight (glass to glass) 1.1" thick 1.77" high x 3.74" long.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.4200.700.12	Clamp only- order 4 pieces of rubber inlays above that match your glass size	19.5015.022.00	Security Pin available 7/8"L
316	Exterior	14.4200.700.12			



Model 42-90 - Glass Clamp
90 Degree clamp (glass to glass) 1.1" thick x 1.77" high.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.4200.900.12	Clamp only- order 4 pieces of rubber inlays above that match your glass size	19.5015.022.00	Security Pin available 7/8"L
316	Exterior	14.4200.900.12			



Model 28F - Glass Clamp for square newels 1.35" thick x 1.77" high x 2.48" long.

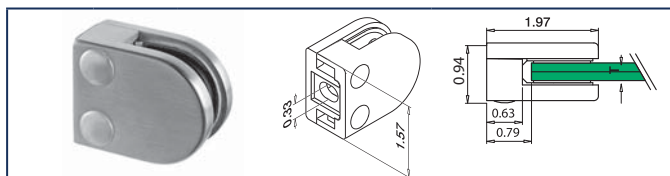
Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2800.000.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size	19.5015.022.00	Security Pin available 7/8"L
316	Exterior	14.2800.000.12			
-	-	19.5001.008.00	Tempered Monolithic	5/16" (8mm)	need 2/clamp (28F) & 4/clamp (28S & 28-90)
-	-	19.5001.009.00	Laminated	5/16" (8.76mm)	
-	-	19.5001.010.00	Tempered Monolithic	3/8" (10mm)	
-	-	19.5001.011.00	Laminated	3/8" (10.76mm)	
-	-	19.5001.012.00	Tempered Monolithic	1/2" (12mm)	
-	-	19.5001.013.00	Laminated	1/2" (12.76mm)	

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



Model 28S - Glass Clamp Straight (glass to glass) 1.35" thick x 1.77" high x 4.21" long.

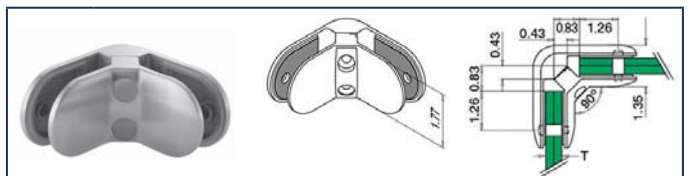
Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2800.700.12	Clamp only- order 4 pieces of rubber inlays above that match your glass size	19.5015.022.00	Security Pin available 7/8"L
316	Exterior	14.2800.700.12			



Model 20F - Glass Clamp
for square newels, 0.94" thick x 1.57" high x 1.97" long. Tested for indoor use only.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2000.000.12	Clamp only- order 2 pcs of rubber inlays below that match glass size	19.5015.022.00	Security Pin Not available
316	Exterior	14.2000.000.12			
-	-	19.5000.006.00	Tempered Monolithic	15/64" (6mm)	need 2/clamp
-	-	19.5000.007.00	Laminated	1/4" (6.76mm)	
-	-	19.5000.008.00	Tempered Monolithic	5/16" (8mm)	

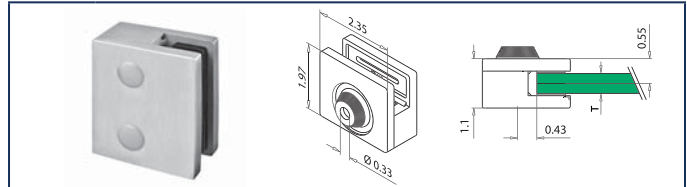
Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



Model 28-90 - Glass Clamp
90 Degree clamp (glass to glass) 1.35" thick x 1.77" high.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2800.900.12	Clamp only- order 4 pieces of rubber inlays above that match your glass size	19.5015.022.00	Security Pin available 7/8"L
316	Exterior	14.2800.900.12			

INSTALL GLASS IN A DIFFERENT WAY.

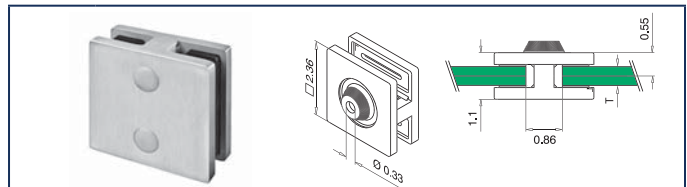
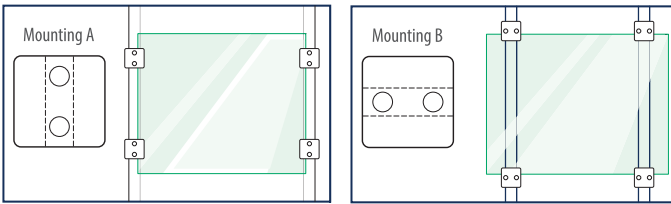


Model 5112 - Glass Clamp

for square newels, 1.1" thick x 1.97" x 2.35". Use vertically or horizontally.

Type	Use	Part Number	Glass Type	Glass Thickness	Note
304	Interior	13.5112.000.12	Tempered	1/2" (12mm)	1 adapter 0723 required
316	Exterior	14.5112.000.12	Monolithic		

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



Model 5212 - Glass Clamp (Double)

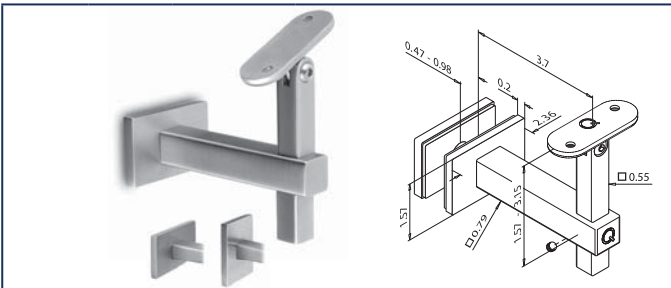
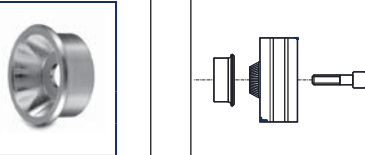
for square newels, 1.1" thick x 2.36" high x 2.36" long

Type	Use	Part Number	Glass Type	Glass Thickness	Note
304	Interior	13.5212.000.12	Tempered	1/2" (12mm)	1 adapter 0723 required
316	Exterior	14.5212.000.12	Monolithic		

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.

Adapter required for each 5112 and 5212

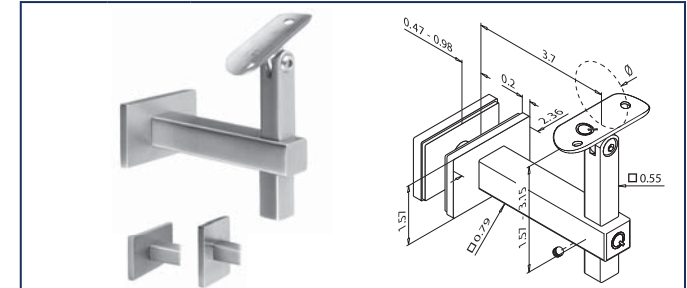
Type	Use	Part Number
304	Interior	13.0723.000.12
316	Exterior	14.0723.000.12



Rail Bracket - pivoting & height adjustable for flat bottom rail to mount to glass

Type	Use	Part Number	Glass Thickness
304	Interior	13.4155.000.12	0.47" to 0.98"
316	Exterior	-	

Order Screws: attach rail (2)- QS-113 bracket to stainless, QS-6 bracket to wood.



Rail Bracket - pivoting & height adjustable for 1.5" dia. round (up to 2" in wood) rail to mount to glass

Type	Use	Part Number	Glass Thickness
304	Interior	13.4155.038.12	0.47" to 0.98"
316	Exterior	-	

Order Screws: attach rail (2)- QS-111 bracket to stainless, WS-111 bracket to wood.

step four

Order required screws and accessories



These accessories are a must for every job, see page 71



See Glass Standoffs in Full View Series Section. Pages 20-21

- Rectangular newels: Stainless steel
- Rail: Rectangular, square, round and other- wood or stainless steel
- Infill: Designer metal, flat bars, round bars, cable & glass
- For interior or exterior

Rectangular Series offers the hottest new look from Europe.

step one
Choose your newel

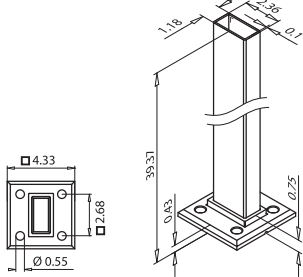
a. Stainless Steel



Rectangular newel mounted w/ fascia bracket

Rectangular Newels & Newel Components

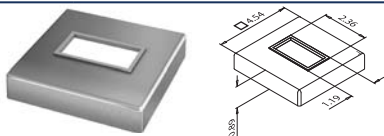
Newels- The Oak Pointe advantage. Order your newels and machine them on the job or have us cut, drill or drill and tap your newels at our plant prior to shipment.



Rectangular Newels 0.10" wall

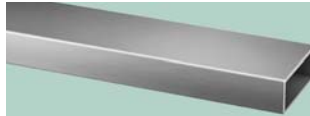
Type	Use	Part Number	Size
304	Interior	-	2.36" x 1.18" x 39.37" L
316	Exterior	14.4901.063.12	

Order Concrete Fastener: 4 per newel, QS-559. For other installations fasteners by others.



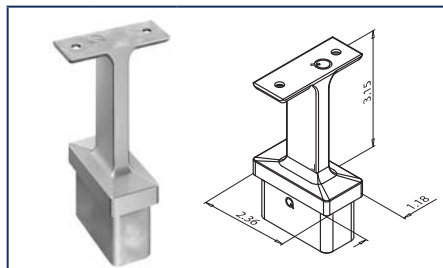
Canopy for 2.36" x 1.18" rectangular newels

Type	Use	Part Number	Size
304	Interior	-	4.54" x 4.54" x .89"H
316	Exterior	14.4513.063.12	



Make your own Newel!

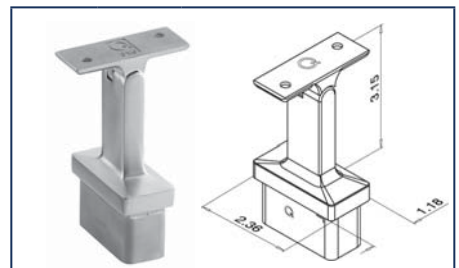
See rectangular 2.36" x 1.18" rail/tubing on page 35 for use with flange or fascia mount bracket on page 34.



Newel Top Mount Fixed Bracket for use with 2.36" x 1.18" rectangular newels and flat bottom rails

Type	Use	Part Number	Size
304	Interior	-	Projects 3.15"
316	Exterior	14.4711.000.12	

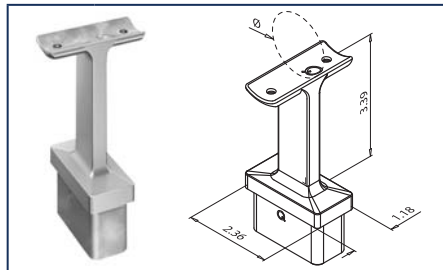
Order Screws: 2 required per bracket. QS-113 bracket to stainless, QS-6 bracket to wood. See Page 72 for details.



Newel Top Mount Pivoting Bracket use with 2.36" x 1.18" rectangular newels and flat bottom rails

Type	Use	Part Number	Size
304	Interior	-	Projects 3.15"
316	Exterior	14.4719.000.12	

Order Screws: 2 required per bracket. QS-113 bracket to stainless, QS-6 bracket to wood. See Page 72 for details.



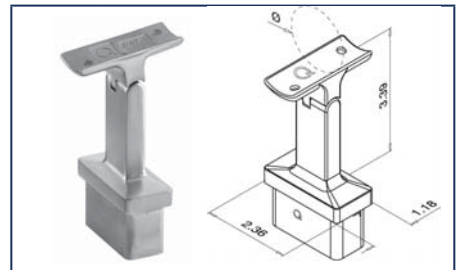
Newel Top Mount Fixed Bracket for use with 2.36" x 1.18" rectangular newels and 1.5" dia. rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	-	Projects 3.39"
316	Exterior	14.4711.042.12	

For up to 1.9" diameter rails (2" and wider in wood)

Type	Use	Part Number	Size
304	Interior	-	Projects 3.39"
316	Exterior	14.4711.048.12	

Order Screws: 2 required per bracket. QS-111 bracket to stainless, WS-111 bracket to wood. See Page 72 for details.



Newel Top Mount Pivoting Bracket for use with 2.36" x 1.18" rectangular newels and 1.5" dia. rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	-	Projects 3.39"
316	Exterior	14.4719.042.12	

For up to 1.9" diameter rails (2" and wider in wood)

Type	Use	Part Number	Size
304	Interior	-	Projects 3.39"
316	Exterior	14.4719.048.12	

Order Screws: 2 required per bracket. QS-111 bracket to stainless, WS-111 bracket to wood. See Page 72 for details.

Rectangular Newels & Newel Components (continued)

Newel Base Flange use with 2.36" x 1.18" rectangular tubes- welded connection

Type	Use	Part Number	Size
304	Interior	-	Base: 4.33" x 4.33"
316	Exterior	14.3503.063.00	

Newel Fascia Mount Bracket for use with 2.36" x 1.18" rectangular tubes

Type	Use	Part Number	Size
304	Interior	-	1.64"W x 7.87"L x 4" projection
316	Exterior	14.4558.063.12	

Order Concrete Fastener: 4 per flange, QS-559. For other installations fasteners by others.

Order Concrete Fastener: 1 per bracket, QS-559. For other installations fasteners by others.

step two
Choose your Handrail

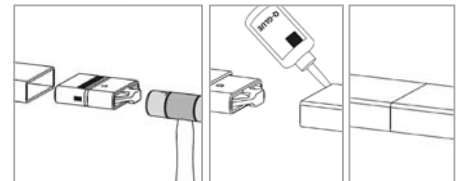
a. Wood Handrails - see all of our wood handrails in our full line catalog. (for exterior use request exterior quote)

b. Stainless Steel Handrails - rectangular

For Rectangular Rails and Rectangular Newels

Rectangular Handrail/Tubing (0.78") 0.08" thick wall

Type	Use	Part Number	Size
304	Interior	-	2.36" x 0.78" x 98"L
316	Exterior	14.4925.262.12	
304	Interior	-	2.36" x 0.78" x 196"L
316	Exterior	14.4900.262.12	



End Cap for handrail 2.36" x 0.78" rectangular

Type	Use	Part Number	Size
304	Interior	-	Projects 0.39"
316	Exterior	14.5727.262.12	

Connector-adjustable for 2.36" x 0.78" rectangular rail

Type	Use	Part Number	Size
304	Interior	-	Pivots 0° to 70°
316	Exterior	14.4312.262.12	

Connector-straight for 2.36" x 0.78" rectangular rail

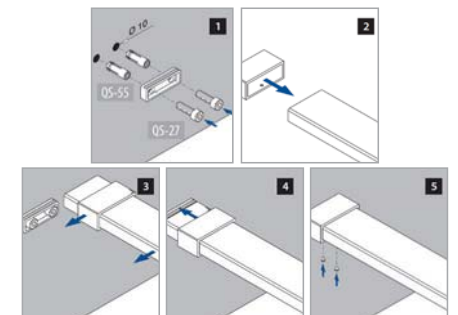
Type	Use	Part Number	Size
304	Interior	-	Completely concealed
316	Exterior	14.5792.262.00	

90° Connector for 2.36" x 0.78" rectangular rail

Type	Use	Part Number	Size
304	Interior	-	2.36" x 0.78" (60 x 20 mm)
316	Exterior	14.4301.262.12	

Wall Mount Bracket - for 2.36" x 0.78" rectangular rail

Type	Use	Part Number	Size
304	Interior	-	2.62"W x 1.04"H
316	Exterior	14.4504.062.12	



Order Fasteners: two each of QS-55 and QS-27.

For Rectangular Rails and Rectangular Newels

Rectangular Handrail/Tubing (1.18")
 0.10" thick wall

Type	Use	Part Number	Size
304	Interior	-	2.36" x 1.18" x 196" L
316	Exterior	14.4900.063.12	

End Cap
 for handrail 2.36" x 1.18" rectangular

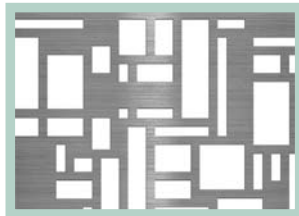
Type	Use	Part Number	Size
304	Interior	-	Projects 0.39"
316	Exterior	14.5728.063.12	

Connector-
 for newel 2.36" x 1.18" rectangular to handrail

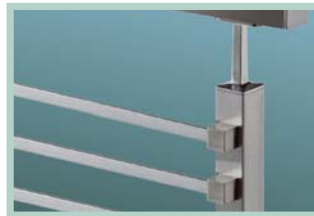
Type	Use	Part Number	Size
304	Interior	-	Projects .039"
316	Exterior	14.4725.063.12	

Order Screws: 1 per connector QS-127. For wood also order insert INS-120.

step three *Choose your Infill*



Designer Metal Panels
 see pages 50-53



Flat Bar Infills
 see page 27



Glass Infill Components
 see pages 30-32



Cable
 see pages 56-70

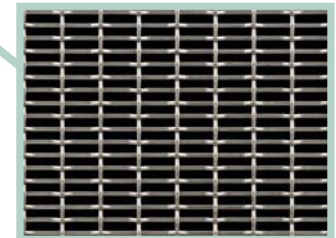
CHOOSE YOUR INFILL
 using stainless steel rectangular newels



Linear Metal Panels
 see pages 48-49



Round Bar Infills
 see pages 28-29



Designer Metal Series Wire Mesh Infills
 see pages 54-55

step four

Order required screws and accessories



These accessories are a must for every job, see page 71.



- **Newels:** stainless steel- 1.5" or 1.9" diameter
- **Rail:** round and other- wood or stainless steel
- **Infill:** Designer metal, round bar, cable & glass
- **For interior or exterior**

Round Series systems offer a smooth continuous appearance.

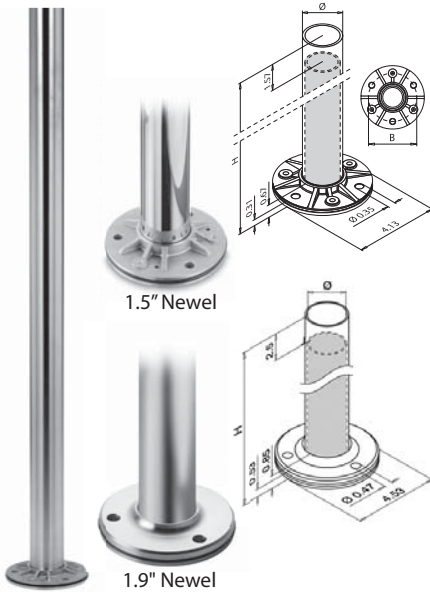
step one

Choose your newel

a. Stainless Steel



Newels- The Oak Pointe advantage. Order your round newels and machine them on the job or have us drill or drill and tap your newels at our plant prior to shipment. These newels are reinforced with a double wall for a 0.156" overall wall thickness. Due to their construction these heavy duty newels cannot be cut to other heights. Oak Pointe can fabricate other lengths to meet your requirements or make your own using the components in this section.



1.5" Newel

1.9" Newel

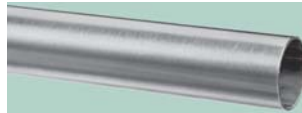
Round Newels - 1.5" dia., double wall 0.156" thick

Type	Use	Part Number	Size
304	Interior	13.0913.438.12	1.5" dia. x 38"L (38.1mm dia.)
316	Exterior	14.0913.438.12	
304	Interior	13.0911.438.12	1.5" dia. x 34"L (38.1mm dia.)
316	Exterior	-	

1.9" diameter, double wall 0.156" thick

304	Interior	13.0916.448.12	1.9" dia. x 38"L (48.3mm dia.)
316	Exterior	14.0916.448.12	
304	Interior	13.0918.448.12	1.9" dia. x 34"L (48.3mm dia.)
316	Exterior	14.0918.448.12	

Newels & Newel Components



Make your own Newel!

See round tubing on this page for use with fascia mount brackets or flanges below and on page 37.

Canopy for 1.5" diameter newels

Type	Use	Part Number	Size
304	Interior	13.0511.038.12	4-11/32" dia. x 1.06"H
316	Exterior	14.0511.038.12	

Canopy for 1.9" diameter newels

304	Interior	13.0511.048.12	4-3/4" dia. x 1.06"H
316	Exterior	14.0511.048.12	

Round Tubing
1.5" dia. x 49" L, double wall 0.156" thick

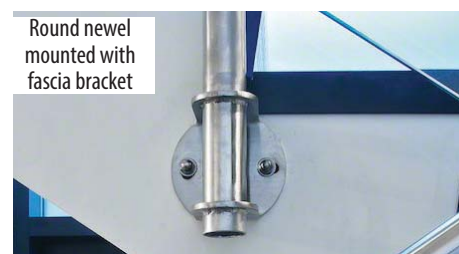
Type	Use	Part Number	Size
304	Interior	13.0951.438.12	Single wall
316	Exterior	14.0951.438.12	each end H2=1.57" H1=10.95"

1.9" dia. x 49" L, double wall 0.156" thick

304	Interior	13.0951.448.12	Single wall
316	Exterior	14.0951.448.12	each end H2=2.5" H1=10.95"

Fascia Newel Inside/Outside Corner Mount for 1.5" diameter tubes

Type	Use	Part Number	Size
304	Interior	13.0555.038.12	6.61" per leaf x 5.91"H
316	Exterior	14.0555.038.12	



Fascia Newel Mount for 1.5" diameter tubes

Type	Use	Part Number	Size
304	Interior	13.0551.038.12	5.91" diameter
316	Exterior	14.0551.038.12	

Order Concrete Fasteners: 2 per bracket. Interior- QS-232 & Exterior- QS-233. For other installations fasteners by others. Order End Cap for bottom of tube.

Newel & Newel Components (continued)

Newel Base Flange
for use with 1.5" diameter tubes- welded connection

Type	Use	Part Number	Size
304	Interior	-	Base: 4-1/8" diameter
316	Exterior	14.3502.038.00	

Adjustable Knee Wall Base Flange
for use 1.5" diameter tubes - glue connection

Type	Use	Part Number	Size
304	Interior	13.0945.038.12	Oval base: 2-1/8"W x 4-3/16"L
316	Exterior	-	

Newel Base Flange
for use with 1.5" diameter tubes - Glue connection

Type	Use	Part Number	Size
304	Interior	-	Base: 3.94" diameter
316	Exterior	14.0942.038.00	

Newel Base Flange
for use with 1.9" diameter tubes- welded connection

Type	Use	Part Number	Size
304	Interior	-	Base: 4.5" dia.
316	Exterior	14.3505.048.00	

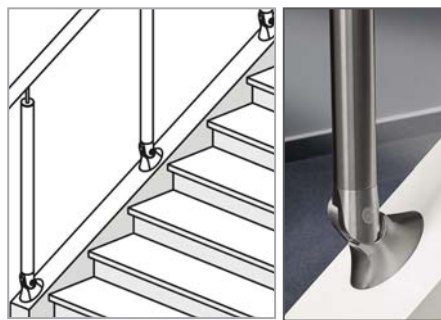
Order Concrete Fasteners: 2 per flange QS-229.
For other installation fasteners by others.

Canopy
for Newel Base Flange 14.0942.038.00 **ONLY**

Type	Use	Part Number	Size
304	Interior	-	5" diameter x 0.71"H
316	Exterior	14.0513.038.12	

Concrete Bolt - To mount round newels and newel flanges to concrete

Type	Use	Part Number	Size
Steel Zinc Plated	Interior	QS-246	D= M8 x 3" long three per newel
316	Exterior	QS-247	



Adjustable Newel Side Mounts

Newel Side Mount Bracket Fixed & Height Adjustable for 1.5" diameter newels & 1.5" dia. rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0138.038.12	S = 3.15" setback
316	Exterior	14.0138.038.12	

Newel Side Mount Bracket Fixed & Height Adjustable for 1.5" dia. newels & 1.5" dia. rails

Type	Use	Part Number	Size
304	Interior	13.0168.038.12	S = 2.25" setback
316	Exterior	14.0168.038.12	

Newel Fascia Mount Bracket
for use with 1.9" diameter tubes

Type	Use	Part Number	Size
304	Interior	13.0557.048.12	2.44"W x 5.91"L x 3.57" projection
316	Exterior	14.0557.048.12	

Newel Side Mount Bracket Fixed & Height Adjustable for 1.5" diameter newels & 1.9" - 2" dia. rails (>2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0138.050.12	S = 3.15" setback
316	Exterior	-	

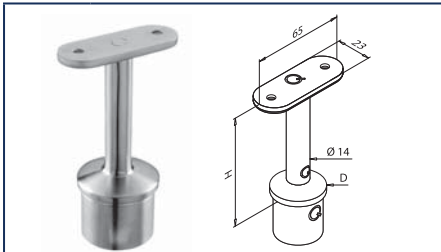
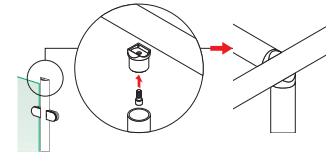
Newel Side Mount Bracket Fixed & Height Adjustable for 1.5" dia. newels & flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.0130.000.12	3.15" setback
316	Exterior	-	

Order Screws: attach rail (2)- QS-111 bracket to stainless, WS-111 bracket to wood. 1 screw to attach to stainless newel: QS-122.

Order Screws: attach rail (2)- QS-113 bracket to stainless, QS-6 bracket to wood. 1 screw to attach to stainless newel: QS-122.

Newel & Newel Components (continued)



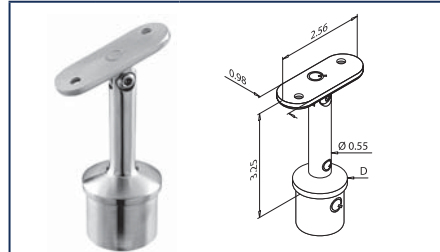
Newel Top Mount Fixed Bracket
for use with 1.5" diameter newels & flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.0702.000.12	Projects 3.25"
316	Exterior	-	

for use with 1.9" diameter newels & flat bottom rails

304	Interior	13.0711.200.12	Projects 3.25"
316	Exterior	14.0711.200.12	

Order Screws: 2 required per bracket. QS-113 bracket to stainless, QS-6 bracket to wood. See page 72 for details.



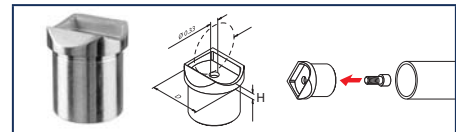
Newel Top Mount Pivoting Bracket
for use with 1.5" diameter newels & flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.0705.000.12	Projects 3.25"
316	Exterior	14.0705.000.12	

for use with 1.9" diameter newels & flat bottom rails

304	Interior	call	Projects 3.25"
316	Exterior	call	

Order Screws: 2 required per bracket. QS-113 bracket to stainless, QS-6 bracket to wood. See page 72 for details.



Connector - Newel-to-rail or rail-to-rail for 1.5" diameter newels and 1.5" diameter rails

Type	Use	Part Number	Size
304	Interior	13.0722.038.12	Projection H=0.2"
316	Exterior	14.0722.038.12	

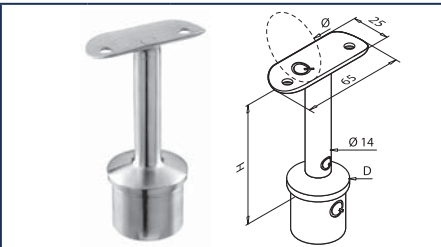
for 1.9" diameter newels and 1.5" diameter rails

304	Interior	13.0726.238.12	Projection H=0.2"
316	Exterior	14.0726.238.12	

for 1.9" diameter newels and 1.9" diameter rails

304	Interior	13.0771.248.12	Projection H=0.43"
316	Exterior	14.0771.248.12	

Order Screws: 1 per connector- QS-127. For wood also order insert INS-120.



Newel Top Mount Fixed Bracket for use with 1.5" dia. newels & 1.5" dia. rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0702.038.12	Projects 3.125"
316	Exterior	14.0702.038.12	

for 1.5" dia. newels & 1.9"- 2" dia. rails (>2" in wood)

304	Interior	13.0702.050.12	Projects 3.125"
316	Exterior	14.0702.050.12	

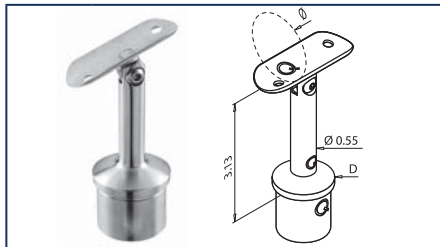
for 1.9" dia. newels & 1.5" dia. rails (up to 2" in wood)

304	Interior	13.0711.238.12	Projects 3.125"
316	Exterior	14.0711.238.12	

for 1.9" dia. newels & 1.9"- 2" dia. rails (>2" in wood)

304	Interior	Call	Projects 3.125"
316	Exterior	Call	

Order Screws: 2 required per bracket. QS-111 bracket to stainless, WS-111 bracket to wood. See page 72 for details.



Newel Top Mount Pivoting Bracket for use with 1.5" dia. newels & 1.5" dia. rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0705.038.12	Projects 3.125"
316	Exterior	14.0705.038.12	

for 1.5" dia. newels & 1.9"- 2" dia. rails (>2" in wood)

304	Interior	13.0705.050.12	Projects 3.125"
316	Exterior	-	

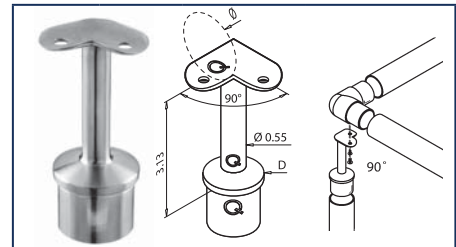
for 1.9" dia. newels & 1.5" dia. rails (up to 2" in wood)

304	Interior	13.0719.238.12	Projects 3.125"
316	Exterior	14.0719.238.12	

for 1.9" dia. newels & 1.9"- 2" dia. rails (>2" in wood)

304	Interior	Call	Projects 3.125"
316	Exterior	Call	

Order Screws: 2 required per bracket. QS-111 bracket to stainless, WS-111 bracket to wood. See page 72 for details.



Newel Top Mount 90° Bracket for use with 1.5" dia. newels & 1.5" dia. rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0702.838.12	Projects 3.125"
316	Exterior	14.0702.838.12	

for 1.5" dia. newels & 1.9"- 2" dia. rails (>2" in wood)

304	Interior	13.0702.850.12	Projects 3.125"
316	Exterior	14.0702.850.12	

for 1.9" dia. newels & 1.5" dia. rails (up to 2" in wood)

304	Interior	13.0711.838.12	Projects 3.125"
316	Exterior	14.0711.838.12	

for 1.9" dia. newels & 1.9"- 2" dia. rails (>2" in wood)

304	Interior	Call	Projects 3.125"
316	Exterior	Call	

Order Screws: 2 required per bracket. QS-111 bracket to stainless, WS-111 bracket to wood. See page 72 for details.

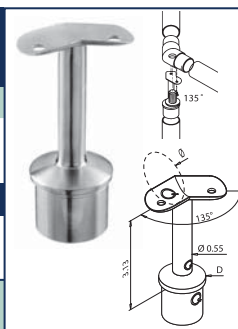
Newel Top Mount 135° Bracket for use with 1.5" dia. newels & 1.5" dia. rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0702.338.12	Projects 3.125"
316	Exterior	14.0702.338.12	

for 1.5" dia. newels & 1.9"- 2" dia. rails (>2" in wood)

304	Interior	13.0702.350.12	Projects 3.125"
316	Exterior	14.0702.350.12	

Order Screws: 2 per bracket- QS-111 to stainless, WS-111 to wood.



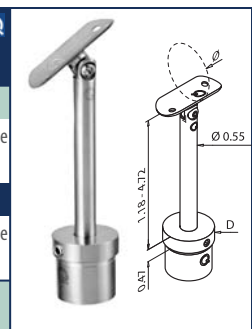
Newel Top Mount Adjustable Pivoting Bracket for use with 1.5" dia. newels & 1.5" dia. rails (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0700.038.12	Projection adjustable from 1.65" to 5.19"
316	Exterior	14.0700.038.12	

for 1.5" dia. newels & 1.9"- 2" dia. rails (>2" in wood)

304	Interior	13.0700.050.12	Projection adjustable from 1.65" to 5.19"
316	Exterior	14.0700.050.12	

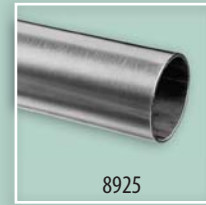
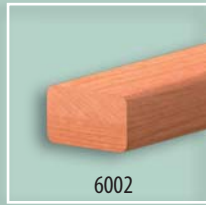
Order Screws: 2 per bracket- QS-111 to stainless, WS-111 to wood.



step two

Choose your Handrail

- a. Wood Handrails - see all of our wood handrails in our full line catalog. (for exterior use request exterior quote)
- b. Stainless Steel Handrails - round



Round Rails & Components




Round Handrail/Tubing
1.5" diameter, 0.078" thick wall

Type	Use	Part Number	Size
304	Interior	13.8925.038.12	1.5" (38.1mm) diameter x 98"L
316	Exterior	14.8925.038.12	
304	Interior	13.0900.038.12	1.5" (38.1mm) diameter x 196"L
316	Exterior	14.0900.038.12	

1.9" diameter, 0.078" thick wall

304	Interior	13.8925.248.12	1.9" (48.3mm) diameter x 98"L
316	Exterior	14.8925.248.12	
304	Interior	13.0900.248.12	1.9" (48.3mm) diameter x 196"L
316	Exterior	14.0900.248.12	




End Cap - curved top for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.5729.038.12	Projection 0.24"
316	Exterior	14.5729.038.12	

curved top for handrail 1.9" diameter

304	Interior	13.5729.248.12	Projection 0.24"
316	Exterior	14.5729.248.12	




End Cap - flat top for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.5732.038.12	Projection 0.16"
316	Exterior	14.5732.038.12	

flat top for handrail 1.9" diameter

304	Interior	13.5732.248.12	Projection 0.16"
316	Exterior	14.5732.248.12	



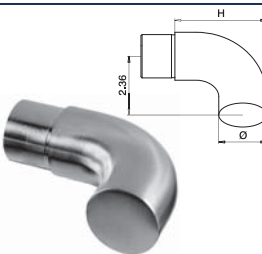
Wall Rosette for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0505.038.12	3-27/32" diameter Order Screws: 3 QS-6
316	Exterior	14.0505.038.12	



Connector - straight for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0790.038.12	adds 0.24" to length
316	Exterior	14.0790.038.12	




Returned End/Vertical Volute for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0739.038.12	H = 3.25", Projects 2.36" to rail CL
316	Exterior	14.0739.038.12	

For handrail 1.9" diameter

304	Interior	Call	-
316	Exterior	Call	



Wall Mount Bracket for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0504.038.12	D = 1.87" H = 1.38"
316	Exterior	14.0504.038.12	

For handrail 1.9" diameter

304	Interior	13.0504.048.12	D = 2.21" H = 1.38"
316	Exterior	14.0504.048.12	

Order Screws: 1 each required per bracket. QS-55 and QS-22. See Page 72 for details.




Connector - straight for handrail 1.5" diameter

Type	Use	Part Number	Size
316	Exterior	14.5792.038.00	Completely concealed

Connector - straight for handrail 1.9" diameter

316	Exterior	14.5792.048.00	Completely concealed
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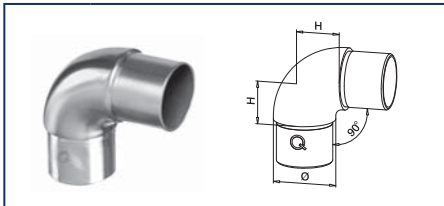
Connector - Straight T-connector for 1.5" diameter newels and handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0307.038.12	adds 2.375" to width (H)
316	Exterior	-	

for 1.9" diameter newels and handrail 1.9" diameter

304	Interior	Call	-
316	Exterior	-	

Round Rails & Components (continued)

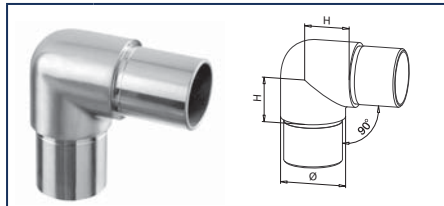


Connector Radius 90°
for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0305.038.12	1-3/16" x 1-3/16" (H)
316	Exterior	14.0305.038.12	

For handrail 1.9" diameter

304	Interior	13.0305.248.12	1-3/8" x 1-3/8" (H)
316	Exterior	14.0305.248.12	

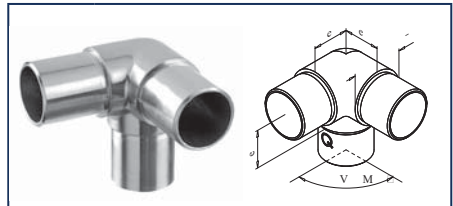


Connector 90°
for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0303.038.12	1-3/16" x 1-3/16" (H)
316	Exterior	14.0303.038.12	

For handrail 1.9" diameter

304	Interior	Call	-
316	Exterior	Call	



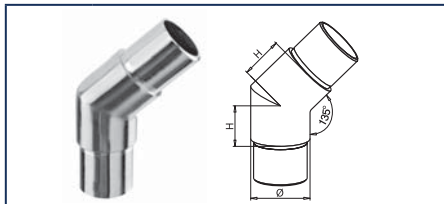
90° T-Connector

for 1.5" diameter newels and 1.5" diameter handrail

Type	Use	Part Number	Size
304	Interior	13.0304.038.12	1-3/16" x 1-3/16" (H)
316	Exterior	-	

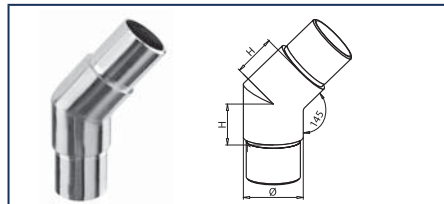
For 1.9" diameter newels and 1.9" diameter handrail

304	Interior	Call	-
316	Exterior	-	



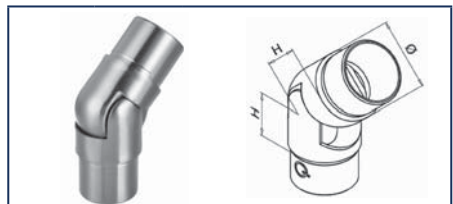
Connector 45° (135°)
for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0300.038.12	1-3/16" x 1-3/16" (H)
316	Exterior	14.0300.038.12	



Connector 35° (145°)
for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0308.038.12	1-3/16" x 1-3/16" (H)
316	Exterior	14.0308.038.12	

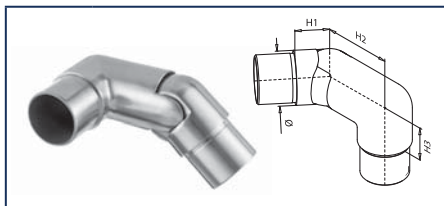


Connector Adjustable (+/- 70°)
for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0312.038.12	1-1/16" (H)
316	Exterior	14.0312.038.12	

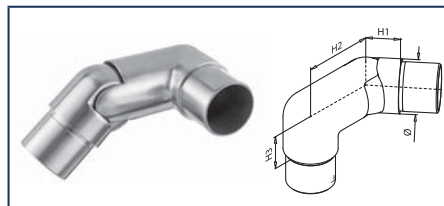
for handrail 1.9" diameter

Type	Use	Part Number	Size
304	Interior	13.0312.248.12	1-1/16" (H)
316	Exterior	14.0312.248.12	



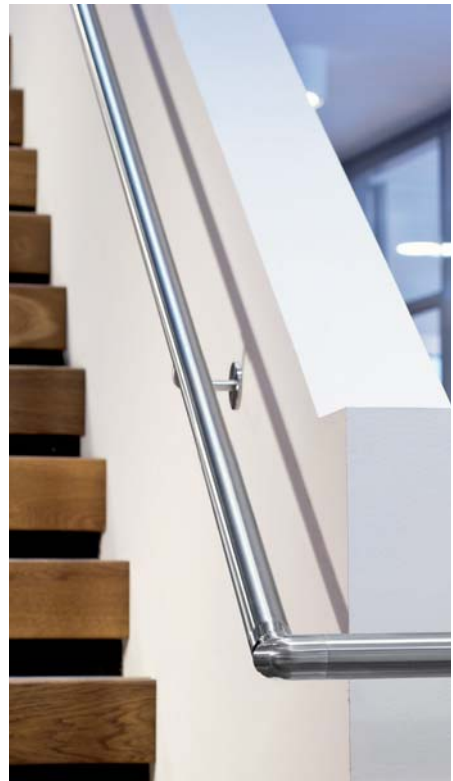
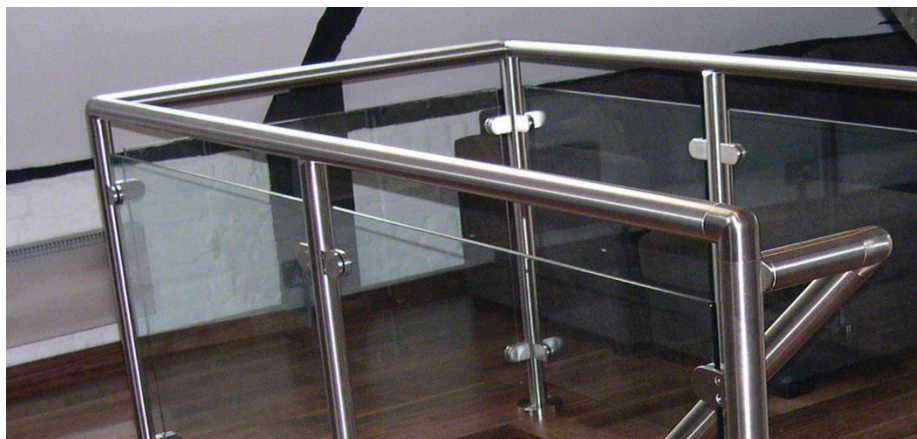
Connector Left Hand 90°
Adjustable +/-70° for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0318.038.12	H1: 1-1/16", H2: 2-7/16", H3: 1-3/16"
316	Exterior	-	



Connector Right Hand 90°
Adjustable +/-70° for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0317.038.12	H1: 1-1/16", H2: 2-7/16", H3: 1-3/16"
316	Exterior	-	



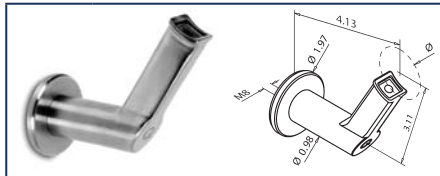
Round Rails & Components (continued)



Wall Rail Bracket - for flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.0111.000.12	2.91" setback
316	Exterior	14.0111.000.12	

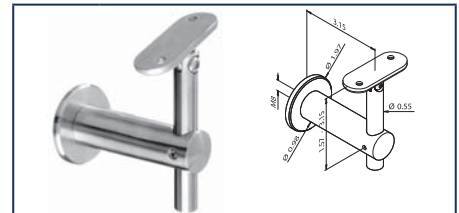
Order Screws: attach rail (2)-QS-113 bracket to stainless, QS-6 bracket to wood. 1 screw to attach to wall- QS-86



Wall Rail Bracket - for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.9320.038.12	4.13" setback
316	Exterior	-	

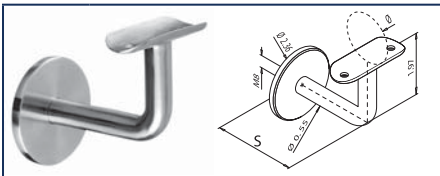
Order Screws: attach rail (1) QS-171. For wood also order insert INS-171. 1 screw to attach to wall- QS-86.



Wall Rail Bracket Pivoting & Height Adjustable for flat bottom rails

Type	Use	Part Number	Size
304	Interior	13.0145.000.12	3.15" setback
316	Exterior	-	


Order Screws: attach rail (2)- QS-113 bracket to stainless, QS-6 bracket to wood. 1 screw to attach to wall- QS-86.



Wall Rail Bracket for handrail 1.5" diameter (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0111.038.12	S=2.91" setback
316	Exterior	14.0111.038.12	

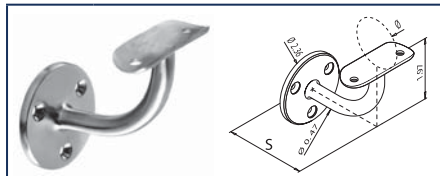
for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0121.038.12	S=2.25" setback
316	Exterior	14.0121.038.12	

for handrail 1.9" - 2" diameter (>2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0111.050.12	S=2.91" setback
316	Exterior	14.0111.050.12	


Order Screws: attach rail (2)-QS-111 bracket to stainless, WS-111 bracket to wood. 1 screw to attach to wall- QS-86.



Wall Rail Bracket for handrail 1.5" diameter (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0112.038.12	S=2.95" setback
316	Exterior	14.0112.038.12	

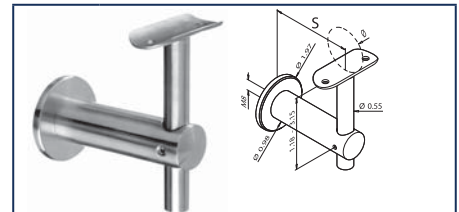
for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0122.038.12	S=2.25" setback
316	Exterior	14.0122.038.12	

for handrail 1.9" - 2" diameter (>2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0112.050.12	S=2.95" setback
316	Exterior	14.0112.050.12	


Order Screws: attach rail (2)- QS-111 bracket to stainless, WS-111 bracket to wood. 3 screw to attach to wall- QS-6.



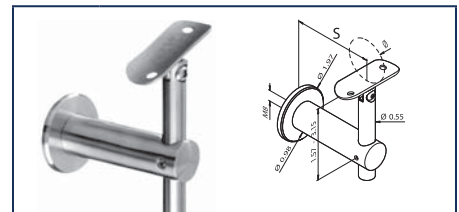
Wall Rail Bracket Fixed & Height Adjustable for handrail 1.5" diameter (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0140.038.12	S=3.15" setback
316	Exterior	14.0140.038.12	

for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0141.038.12	S=2.25" setback
316	Exterior	14.0141.038.12	


Order Screws: attach rail (2)- QS-111 bracket to stainless, WS-111 bracket to wood. 1 screw to attach to wall- QS-86.



Wall Rail Bracket Pivoting & Height Adjustable for handrail 1.5" dia. (up to 2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0145.038.12	S=3.15" setback
316	Exterior	14.0145.038.12	

for handrail 1.5" diameter

Type	Use	Part Number	Size
304	Interior	13.0146.038.12	S=2.25" setback
316	Exterior	14.0146.038.12	

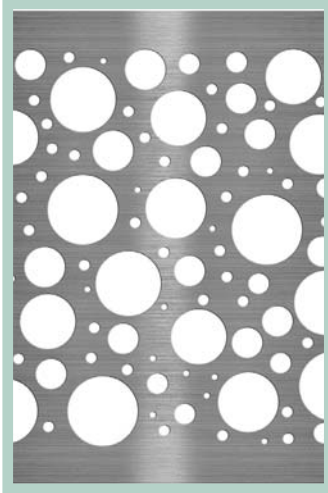
for handrail 1.9" - 2" diameter (>2" in wood)

Type	Use	Part Number	Size
304	Interior	13.0145.050.12	S=3.15" setback
316	Exterior	-	

Order Screws: attach rail (2)- QS-111 bracket to stainless, WS-111 bracket to wood. 1 screw to attach to wall- QS-86.

step three

Choose your Infill



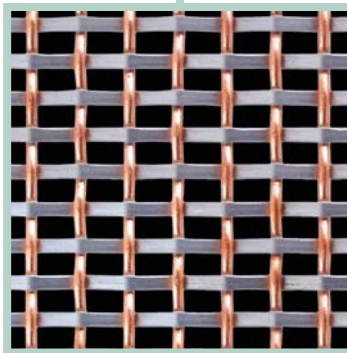
Designer Metal Panels
see pages 50-53



Glass Infill Components
see pages 45-47



Round Bar Infills
see pages 43-44

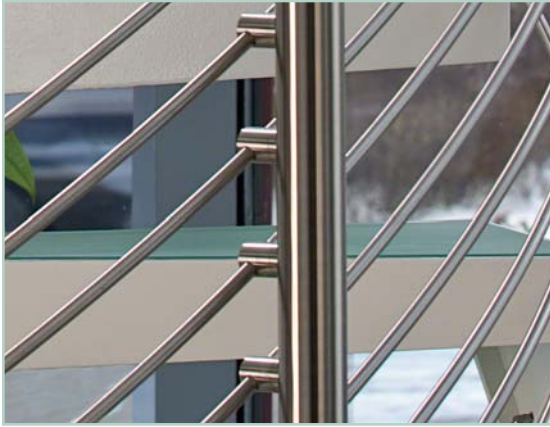


Designer Metal Series
Wire Mesh Infills
see pages 54-55



Cable Infills
see pages 56-70

1/2" Round Bar Infill

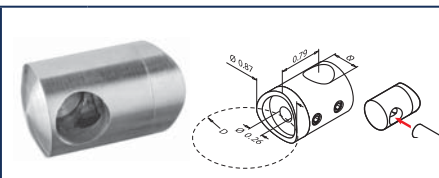


Round Solid Bar			
Type	Use	Part Number	Size
304	Interior	13.8925.012.12	0.5" diameter x 98"L (12mm x 2500mm)
316	Exterior	-	
304	Interior	13.0900.012.12	0.5" diameter x 196"L (12mm x 5000mm)
316	Exterior	14.0900.012.12	

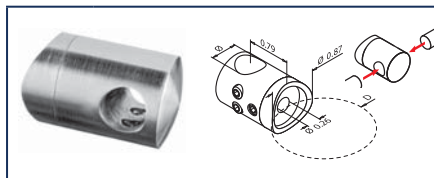


Round Hollow Tube			
Type	Use	Part Number	Size
304	Interior	TUBE-050-236-304	0.5" dia. x 236"L
316	Exterior	-	0.06" thick wall
Steel	Interior	TUBE-050-100-SAT	0.5" dia. x 100"L
			0.04" thick wall satin black finish

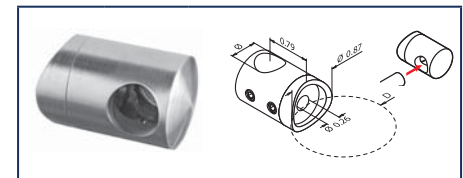
1/2" solid bar and 1/2" & 5/8" hollow tube can be ordered cut to length. For field cutting order our Tube Cutter below. 1/2" solid bar may be ordered bent to a radius.



Left Crossbar Holder			
for 1/2" diameter bar & 1.5" diameter newels			
Type	Use	Part Number	Size
304	Interior	13.0832.038.12	0.87" diameter
316	Exterior	14.0832.038.12	x 1.18" projection
For 1/2" diameter bar & 1.9" diameter newels			
304	Interior	13.0832.048.12	0.87" diameter
316	Exterior	14.0832.048.12	x 1.18" projection

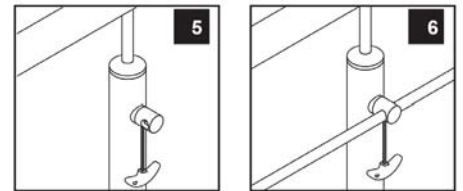
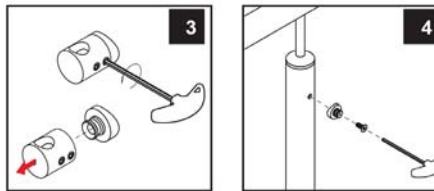
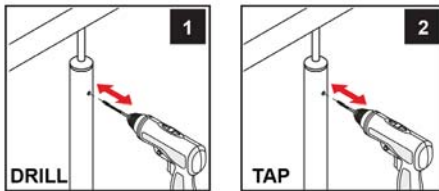


Center Crossbar Holder			
for 1/2" diameter bar & 1.5" diameter newels			
Type	Use	Part Number	Size
304	Interior	13.0831.038.12	0.87" diameter
316	Exterior	14.0831.038.12	x 1.18" projection
For 1/2" diameter bar & 1.9" diameter newels			
304	Interior	13.0831.048.12	0.87" diameter
316	Exterior	14.0831.048.12	x 1.18" projection



Right Crossbar Holder			
for 1/2" diameter bar & 1.5" diameter newels			
Type	Use	Part Number	Size
304	Interior	13.0833.038.12	0.87" diameter
316	Exterior	14.0833.038.12	x 1.18" projection
For 1/2" diameter bar & 1.9" diameter newels			
304	Interior	13.0833.048.12	0.87" diameter
316	Exterior	14.0833.048.12	x 1.18" projection

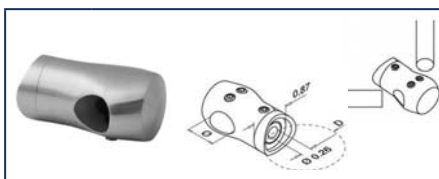
Order Screws: 1 per holder-QS-113 for holder to stainless.



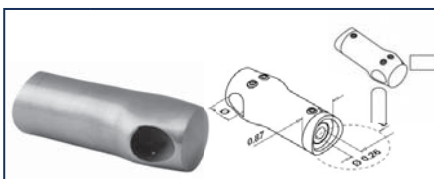
Tube Cutter for hollow metal tubes		
Part Number	Notes	
SS-TUBE CUTTER	1/4" to 2-5/8" Hollow	

Wheel for Tube Cutter		
Part Number	Notes	
SS-TUBE-CUTTING WHEEL	Extra wheel	

Turn heads and corners with our new 1/2" bar holders for 1.9" round newels



Outside Corner Bar Holder			
for 1/2" diameter bar & 1.9" diameter newels			
Type	Use	Part Number	Size
304	Interior	13.0839.048.12	0.87" diameter x
316	Exterior	14.0839.048.12	1-5/8" projection



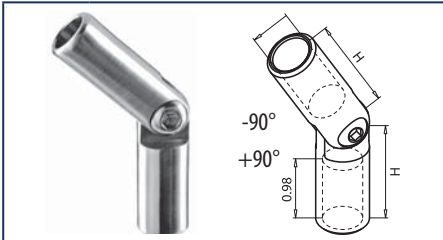
Inside Corner Bar Holder			
for 1/2" diameter bar & 1.9" diameter newels			
Type	Use	Part Number	Size
304	Interior	13.0834.048.12	0.87" diameter x
316	Exterior	14.0834.048.12	2-3/8" projection

Order Screws: 1 per holder-QS-113 for holder to stainless.

Order Screws: 1 per holder-QS-113 for holder to stainless.

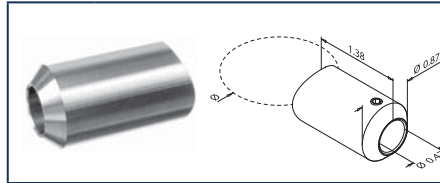


1/2" Round Bar Infill (continued)



Connector - adjustable for 0.5" dia. round bar

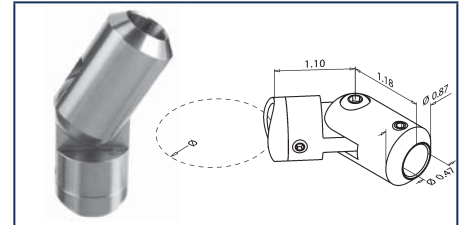
Type	Use	Part Number	Size
304	Interior	13.0302.012.12	H = 1-27/64", Outside = 0.63" dia.
316	Exterior	14.0302.012.12	



Crossbar Holder Inside Mount
for 1/2" diameter bar & 1.5" diameter newels

Type	Use	Part Number	Size
304	Interior	13.0850.038.12	0.87" diameter
316	Exterior	-	

Order Screws: 1 per holder- QS-123 for holder to stainless.



Crossbar Holder Inside Mount Adjustable
for 1/2" diameter bar & 1.5" diameter newels

Type	Use	Part Number	Size
304	Interior	13.0855.038.12	0.87" diameter
316	Exterior	-	

Order Screws: 1 per holder- QS-120 for holder to stainless.



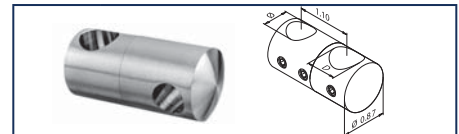
Sphere End Cap - 1" diameter with 1/2" blind hole - apply to round bar with Q-glug

Type	Use	Part Number
304	Interior	SPH-1/2END-304
316	Exterior	SPH-1/2END-316



Sphere - 1" diameter with 1/2" through hole - apply to round bar vertically or horizontally with Q-glug

Type	Use	Part Number
304	Interior	SPH-1/2THRU-304
316	Exterior	-



Vertical/Horizontal Crossbar Holder
for 1/2" diameter round bar

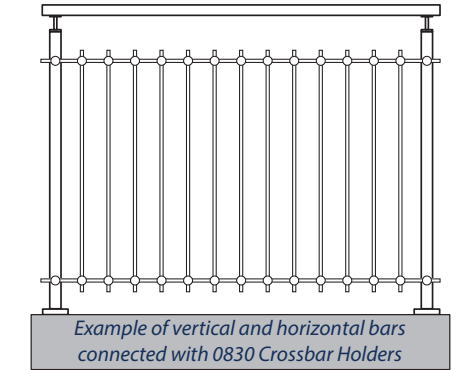
Type	Use	Part Number	Size
304	Interior	13.0830.012.12	0.87" diameter.
316	Exterior	-	1.10" center to center

5/8" Round Bar Infill

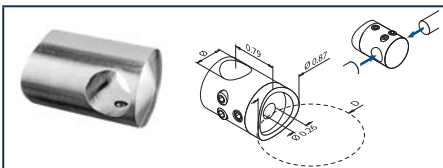


Round Hollow Tube, 0.04" thick wall

Type	Use	Part Number	Size
304	Interior	13.8925.016.12	5/8" diameter x 98"L (16mm x 2500mm)
316	Exterior	-	
304	Interior	13.0900.016.12	5/8" diameter x 196"L (16mm x 5000mm)
316	Exterior	14.0900.016.12	
Steel	Interior	TUBE-0625-100-SAT	5/8" dia. x 100"L satin black finish



5/8" hollow tube can be ordered cut to length or order our Tube Cutter (see page 43).



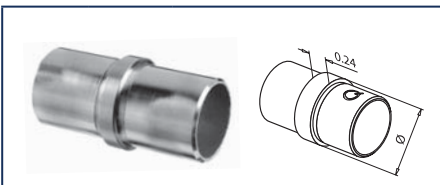
Center Crossbar Holder
for 5/8" diameter tube & 1.5" diameter newels

Type	Use	Part Number	Size
304	Interior	13.0840.038.12	0.98" diameter x 1.46" projection
316	Exterior	14.0840.038.12	

For 5/8" diameter tube & 1.9" diameter newels

Type	Use	Part Number	Size
304	Interior	Call	-
316	Exterior	Call	

Order Screws: 1 per holder- QS-120 for holder to stainless.



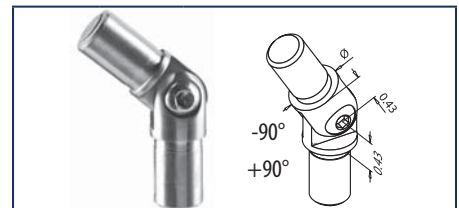
Connector- straight for 5/8" diameter tube

Type	Use	Part Number	Size
304	Interior	13.0790.016.12	adds 0.24" to length
316	Exterior	14.0790.016.12	



End Cap - curved top for 5/8" hollow tube

Type	Use	Part Number	Size
304	Interior	13.0729.016.12	5/32" projection
316	Exterior	14.0729.016.12	



Connector- adjustable for 5/8" dia. round tube

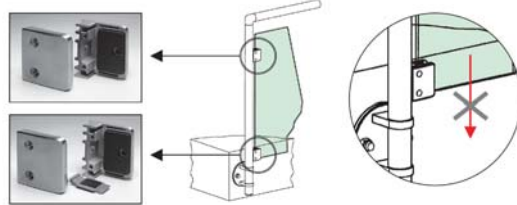
Type	Use	Part Number	Size
304	Interior	-	-
316	Exterior	14.0302.016.12	

Glass Infill

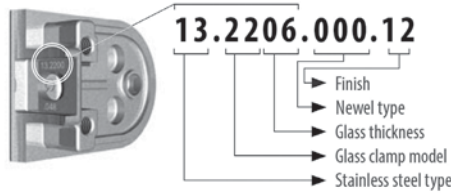
Glass clamps have been tested according to German Industry norm, DIN 12600. Glass width for outdoor use depends upon wind factor, glass type, glass thickness and clamp used. If you require test data for indoor or outdoor use please contact us. For fascia mount glass installations use Models 24 or 42 with security plate for mounting even to glass bottom or order security pins to use with clamps which are available for all models except 20 and 21.

These products have been designed and developed to meet industry norms and safety code requirements. Before installing always consult a licensed engineer to determine if your railing design meets the local building codes.

Different glass clamps have been designed for tempered and for laminated glass. This guarantees the best clamping results on glass panels.



Numbering system for glass clamps



Glass Installation Aid

Type	Use	Part Number
Tool	For glass positioning	19.0715.000.00

Model 20T - Glass Clamp for 1.5" diameter newels, 0.95" thick x 1.57" high x 1.97" long. Tested for indoor use only.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2000.038.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		Security Pin not available
316	Exterior	14.2000.038.12			
-	-	19.5000.006.00	Tempered Monolithic	15/64" (6mm)	need 2/clamp
-	-	19.5000.007.00	Laminated	1/4" (6.76mm)	
-	-	19.5000.008.00	Tempered Monolithic	5/16" (8mm)	

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.

Model 22T - Glass Clamp for 1.5" diameter newels, 1.1" thick x 1.77" high x 2.48" long.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2200.038.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.022.00 Security Pin available 7/8"L
316	Exterior	14.2200.038.12			
-	-	19.5004.006.00	Tempered Monolithic	15/64" (6mm)	need 2/clamp
-	-	19.5004.007.00	Laminated	1/4" (6.76mm)	
-	-	19.5004.008.00	Tempered Monolithic	5/16" (8mm)	
-	-	19.5004.009.00	Laminated	5/16" (8.76mm)	
-	-	19.5004.010.00	Tempered Monolithic	3/8" (10mm)	

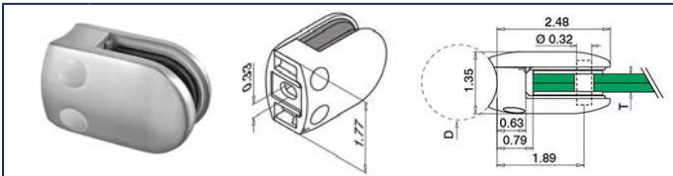
Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.

Model 25T - Glass Clamp for 1.5" diameter newels, 1.18" thick x 1.77" high x 2.48" long.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2500.038.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.025.00 Security Pin available 63/64"L
316	Exterior	14.2500.038.12			
-	-	19.5009.011.00	Laminated	3/8" (10.76mm)	need 2/clamp
-	-	19.5009.012.00	Tempered Monolithic	1/2" (12mm)	
-	-	19.5009.013.00	Laminated	1/2" (12.76mm)	

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.

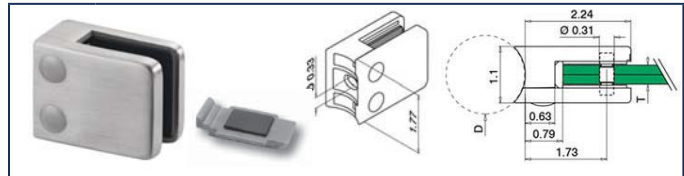
Glass Infill (continued)



Model 28T - Glass Clamp for 1.9" diameter newels, 1.35" thick x 1.77" high x 2.48" long.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2800.048.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.022.00 Security Pin available 7/8"L
316	Exterior	14.2800.048.12			
-	-	19.5001.008.00	Tempered Monolithic	5/16" (8mm)	need 2/clamp
-	-	19.5001.009.00	Laminated	5/16" (8.76mm)	
-	-	19.5001.010.00	Tempered Monolithic	3/8" (10mm)	
-	-	19.5001.011.00	Laminated	3/8" (10.76mm)	
-	-	19.5001.012.00	Tempered Monolithic	1/2" (12mm)	
-	-	19.5001.013.00	Laminated	1/2" (12.76mm)	

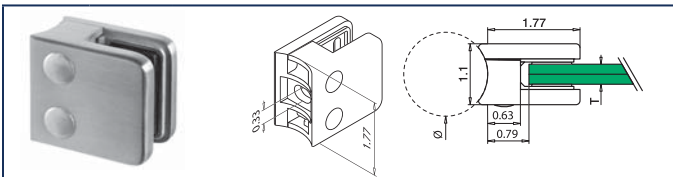
Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



Model 42T - Glass Clamp for 1.5" diameter newels, 1.1" thick x 1.77" high x 2.24" long. Security plate included.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.4200.038.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.022.00 Security Pin available 7/8"L
316	Exterior	14.4200.038.12			
for 1.9" diameter newels 1.1" thick x 1.77" high x 2.24" long. Security plate included.					
304	Interior	13.4200.048.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.022.00 Security Pin available 7/8"L
316	Exterior	14.4200.048.12			
-	-	19.5003.008.00	Tempered Monolithic	5/16" (8mm)	need 2/clamp
-	-	19.5003.009.00	Laminated	5/16" (8.76mm)	
-	-	19.5003.010.00	Tempered Monolithic	3/8" (10mm)	
-	-	19.5003.011.00	Laminated	3/8" (10.76mm)	
-	-	19.5003.012.00	Tempered Monolithic	1/2" (12mm)	
-	-	19.5003.013.00	Laminated	1/2" (12.76mm)	

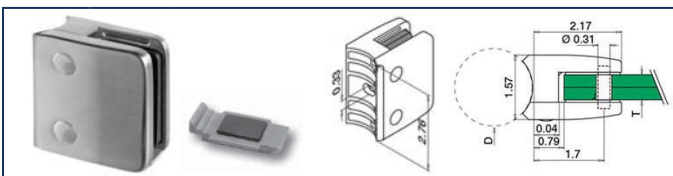
Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



Model 21T - Glass Clamp for 1.5" diameter newels, 1.1" thick x 1.77" high x 1.77" long. Tested for indoor use only.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2100.038.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		Security Pin not available
316	Exterior	14.2100.038.12			
-	-	19.5002.006.00	Tempered Monolithic	15/64" (6mm)	need 2/clamp
-	-	19.5002.007.00	Laminated	1/4" (6.76mm)	
-	-	19.5002.008.00	Tempered Monolithic	5/16" (8mm)	
-	-	19.5002.009.00	Laminated	5/16" (8.76mm)	
-	-	19.5002.010.00	Tempered Monolithic	3/8" (10mm)	

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.



Model 24T - Glass Clamp for 1.9" diameter newels, 1.57" thick x 2.76" high x 2.17" long. Security plate included.

Type	Use	Part Number	Glass Type	Glass Thickness	Notes
304	Interior	13.2400.048.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.030.00 Security Pin available 1-3/16" L
316	Exterior	14.2400.048.12			
-	-	19.5007.013.00	Laminated	1/2" (12.76mm)	need 2/clamp
-	-	19.5007.064.00	Laminated	9/16" (13.52mm)	
-	-	19.5007.017.00	Laminated	5/8" (16.76mm)	
-	-	19.5007.018.00	Laminated	11/16" (17.52mm)	

Order Screws: 1 per clamp- QS-127. For wood, also order insert INS-120.

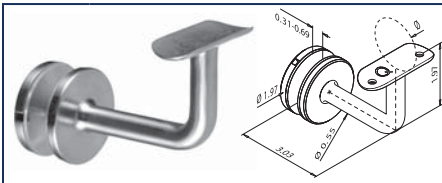


Stainless Steel Glass System with 1/2" Round Bar

Photo Courtesy of Meek's Lumber, Wallis Construction-Illumination Station project. Harrison, AR.

Straight & 90 degree glass clamps available for Models 28 & 42. See Page 31.





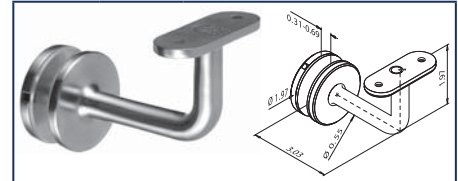
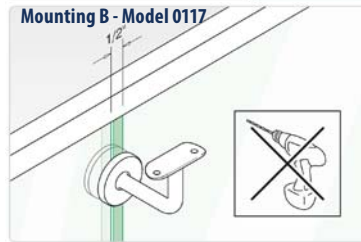
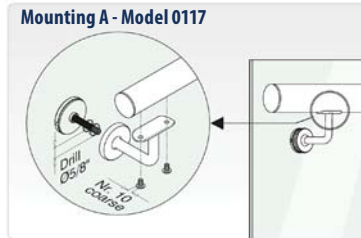
Rail Bracket - for 1.5" dia. (up to 2" in wood) rail to mount to glass with 3.03" setback

Type	Use	Part Number	Glass Thickness
304	Interior	13.0117.038.12	0.31" to 0.69"
316	Exterior	-	

for 1.9" - 2" dia. (>2" in wood) rail to mount to glass

304	Interior	13.0117.050.12	0.31" to 0.69"
316	Exterior	-	

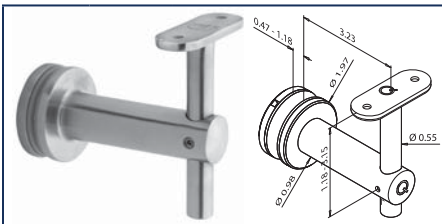
Order: 2 screws per bracket- QS-111 bracket to stainless, WS-111 bracket to wood, & tool 19.0702.050.00.



Rail Bracket - for flat bottom rail to mount to glass with 3.03" setback

Type	Use	Part Number	Glass Thickness
304	Interior	13.0117.000.12	0.31" to 0.69"
316	Exterior	-	

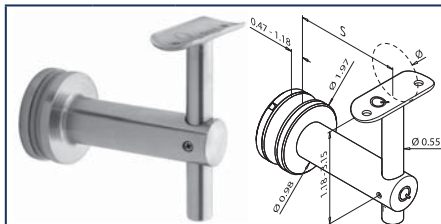
Order: 2 screws per bracket- QS-113 bracket to stainless, QS-6 bracket to wood, & tool 19.0702.050.00.



Rail Bracket - fixed & height adjustable for flat bottom rail to mount to glass with 3.23" setback

Type	Use	Part Number	Glass Thickness
304	Interior	13.0150.000.12	0.47" to 1.18"
316	Exterior	14.0150.000.12	

Order: 2 screws per bracket- QS-113 bracket to stainless, QS-6 bracket to wood, & tool 19.0702.050.00.



Rail Bracket - fixed & height adjustable for 1.5" dia. (up to 2" in wood) rail to mount to glass with S=3.23" setback

Type	Use	Part Number	Glass Thickness
304	Interior	13.0150.038.12	0.47" to 1.18"
316	Exterior	14.0150.038.12	

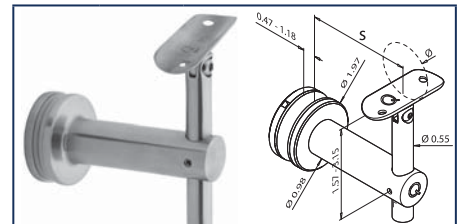
fixed & height adjustable for 1.5" dia. rail to mount to glass with S=2.25" setback

304	Interior	13.0151.038.12	0.47" to 1.18"
316	Exterior	14.0151.038.12	

fixed & height adjustable for 1.9" - 2" dia. (>2" in wood) rail to mount to glass with S=3.23" setback

304	Interior	13.0150.050.12	0.47" to 1.18"
316	Exterior	14.0150.050.12	

Order: 2 screws per bracket- QS-111 bracket to stainless, WS-111 bracket to wood, & tool 19.0702.050.00.



Rail Bracket - pivoting & height adjustable for 1.5" dia. (up to 2" in wood) rail to mount to glass with S=3.23" setback

Type	Use	Part Number	Glass Thickness
304	Interior	13.0155.038.12	0.47" to 1.18"
316	Exterior	14.0155.038.12	

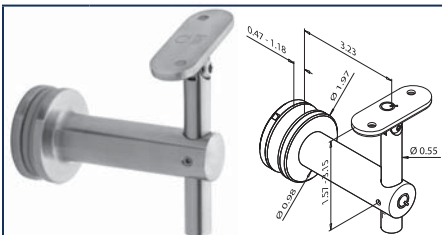
pivoting & height adjustable for 1.5" diam. rail to mount to glass with S=2.25" setback

304	Interior	13.0156.038.12	0.47" to 1.18"
316	Exterior	14.0156.038.12	

pivoting & height adjustable for 1.9" - 2" dia. (>2" in wood) rail to mount to glass with S=3.23" setback

304	Interior	13.0155.050.12	0.47" to 1.18"
316	Exterior	14.0155.050.12	

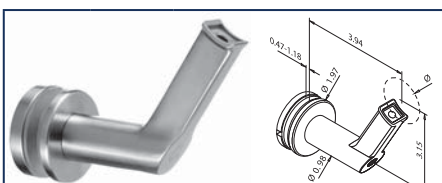
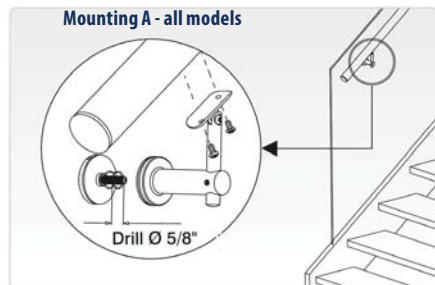
Order: 2 screws per bracket- QS-111 bracket to stainless, WS-111 bracket to wood, & tool 19.0702.050.00.



Rail Bracket - pivoting & height adjustable for flat bottom rail to mount to glass with 3.23" setback

Type	Use	Part Number	Glass Thickness
304	Interior	13.0155.000.12	0.47" to 1.18"
316	Exterior	14.0155.000.12	

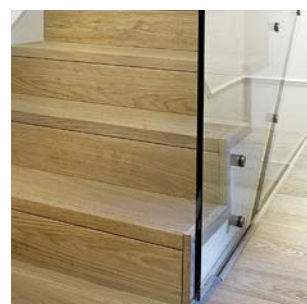
Order: 2 screws per bracket- QS-113 bracket to stainless, QS-6 bracket to wood, & tool 19.0702.050.00.



Rail Bracket - for 1.5" diameter rail to mount to glass with 3.94" setback

Type	Use	Part Number	Glass Thickness
304	Interior	13.9350.038.12	0.47" to 1.18"
316	Exterior	-	

Order: 1 screw per bracket- QS-171 bracket to stainless & tool 19.0702.050.00. For wood also order insert INS-171



See Glass Standoffs in Full View Series Section. Page 20-21

step four

Order required screws and accessories



These accessories are a must for every job, see page 71.

Linear Metal Panels

Create a unique contemporary stairway with our Linear Metal Panels. The options are only limited by your imagination.



- Send us your plans and Oak Pointe will provide a quotation for a Linear Metal Panel stairway.
- Panels can be manufactured for horizontal or vertical use. Recommended for interior use.
- Standard or custom sizes.
- Kneewall (closed stringer) stairs.
- Open stringer stairs.
- Our steel or wood newels should be used to provide strength to your railing system.
- Panels may be installed joined to other panels, joined to wood or metal newels or with spaces between.
- Panels may sit flush to floors and railings or suspended.
- Flush mount panels to bottom of handrail or use plowed rail.
- Panels are made from 1/2" thick x 1 1/2" wide hollow steel tubes with 0.065" thick walls. Members are connected with welds.
- All installation hardware included to assemble and mount to wood treads and floors.
- Standard color is black. Also available in raw for field finishing (raw steel may have rust which will have to be removed prior to finishing) or in most any powder coat color desired.
- Save money on installation compared to an iron baluster job. Installs with standard tools. Easy to mask-off and finish surrounding areas after our panels are installed.

Design Examples

Open Stringer Stairways



Products included in application

- Handrail: 9200 (used as starting newel also)
- Rake panels with mounting newels
- Level panels with spacer newel between & installed above the floor



Products included in application

- Handrail 9200
- Newels: 4110
- Rake panels with 2" baluster between
- Level panels installed above the floor

Kneewall (closed stringer) Stairways



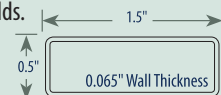
Products included in application

- Handrail: 9200 (used as starting newel also)
- Rake and level panels installed with spacing between
- Spacer newel used on landing



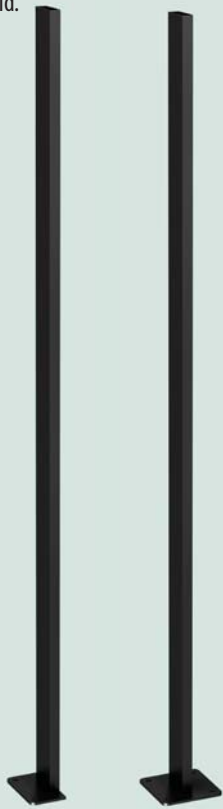
Products included in application

- Handrail: 9200 (used as starting newel also)
- Shown with horizontal & vertical panels
- Rake and level panels installed with spacing between



Mounting Newels

Used for installing panels on open treads or level runs. Tube is 0.5" thick x 1.5" wide with 0.065" thick walls. Comes with full or half bottom flange. 47" long- cut to length from top in the field.

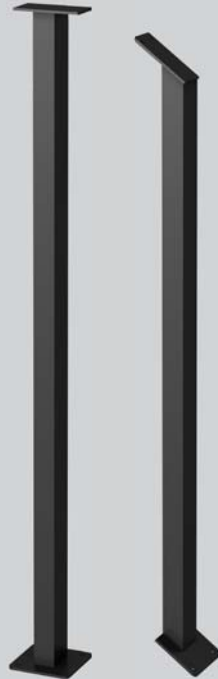


LMMN-L2-47

LMMN-L4-47

Spacer Newels

Used to add strength to the railing system and as needed to fill gaps 4" or more. For level or rake applications. Standard rake newel is for 36.9 degree (7.5" rise/10" run) but others are available. Tube is 1" thick x 1.5" wide with 0.12" thick walls. Fabricated to length needed.



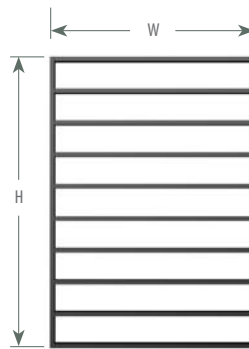
LMSN-L-X

LMSN-R369-X



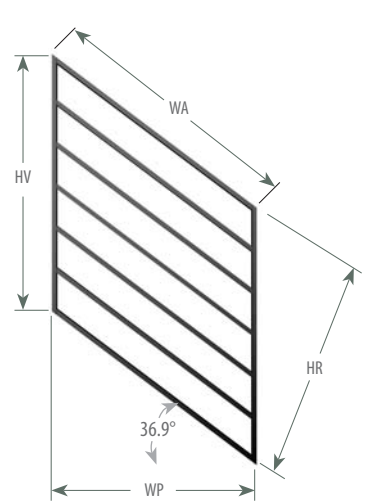
Detail of Weld Connection

Standard Level Panel



LMP-L

Standard Rake Panel



LMP-R369

Tubes on standard panels are 4 1/8" on center (3 5/8" clear space). Other spacing under 4 1/2" on center is available.

Standard Level Panels. Model Number: LMP-L(width)(height)

		Standard Level Panel Widths (W)						
		12"	18"	24"	30"	36"	42"	48"
Standard Level Panel Heights (H)	33-1/2"	LMP-L1233	LMP-L1833	LMP-L2433	LMP-L3033	LMP-L3633	LMP-L4233	LMP-L4833
	37-5/8"	LMP-L1237	LMP-L1837	LMP-L2437	LMP-L3037	LMP-L3637	LMP-L4237	LMP-L4837

How to determine your level rail height using level panels:

- Flush mounted to floor- panel height plus height of rail. If rail will be plowed then deduct depth of plow.
- Mounted above floor- panel height plus height above floor plus height of rail. If rail will be plowed then deduct depth of plow.
- Curb wall mounted- height of curb wall plus height of panel plus height of rail. If rail will be plowed then deduct depth of plow.

Standard Rake Panels*. Model Number: LMP-R369-(width)(height)

		Standard Rake Panel Widths (WA)					Height Measured on Rake (HR)
		15"	22-1/2"	30-1/4"	37-1/2"	45"	
Standard Rake Panel Heights (HV)	30-5/32"	LMP-R369-1530	LMP-R369-2230	LMP-R369-3030	LMP-R369-3730	LMP-R369-4530	24-1/8"
	33-3/8"	LMP-R369-1533	LMP-R369-2233	LMP-R369-3033	LMP-R369-3733	LMP-R369-4533	26-11/16"
Width in plan view (WP)		12"	18"	24"	30"	36"	

How to determine your rake rail height using 36.9° panels (formula for other rake panels will vary slightly):

- Kneewall mounted - panel vertical height plus height of kneewall above tread nose plus 1.25 times the height of rail. If rail will be plowed then deduct 1.25 times the depth of plow.
- Mounted above open stringer - panel vertical height plus height above tread nose plus 1.25 times the height of rail. If rail will be plowed then deduct 1.25 times the depth of plow.

* Standard rake panels are for 7-1/2" rise and 10" run (36.9 degrees). Will flex about 1 degree +/- . Panels made for other rakes are available.

Designer Metal Panel Infill

Designer Metal Panels for level or rake applications. Rake panel patterns are available following the tread, following the rake and some designs also available in a staggered pattern. Select one of our designs or we can custom make one for you! Mount your Designer Metal Panels using our stainless steel glass clamps or with a wood frame.

Metal and Finish options *(see footnote below about edges)*

These finish images were made as accurate as possible within print limitations. All orders will be confirmed with actual sample finish before production.

STAINLESS STEEL 1/8" thick



- 304 Satin #4 Finish
- 316 Satin #4 Finish
- 304 Mirror Polish Finish
- 316 Mirror Polish Finish

BRONZE 1/8" thick



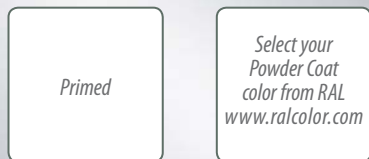
- Bronze Satin #4 Finish
- Bronze Statuary Finish with Satin Clear Lacquer top coat
 - Light
 - Medium
 - Dark

BRASS 1/8" thick



- Brass Satin #4 Finish
- Brass Statuary Finish with Satin Clear Lacquer top coat
 - Light
 - Medium
 - Dark


STEEL 1/8" thick



- Primed
- Powder Coating for interior use

Select your Powder Coat color from RAL www.ralcolor.com

ALUMINUM 1/4" thick



- Satin #4 Finish with a Clear Powder Coat for interior or exterior use (specify) ^
- Primed
- Powder Coating for interior or exterior use (specify)

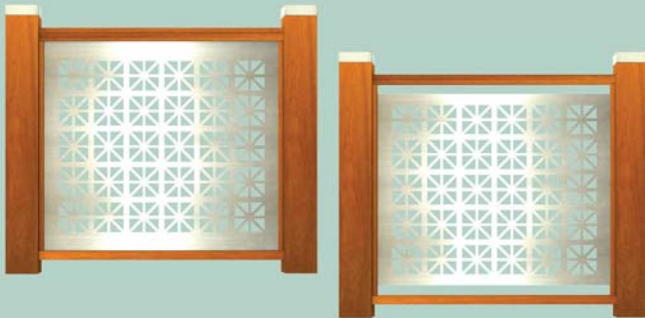
Select your Powder Coat color from RAL www.ralcolor.com

NOTE about edges:
Priming and powder coat finishes will cover both faces and all edges. Satin #4 finish will cover both faces and the outside edges but inside edges will be mill finish. Mirror Polish will cover both faces, the outside edges will be satin and the inside edges will be mill finish. Statuary finishes will be on both faces and outside edges but inside edges will be mill finish and clear lacquer top coat will be on both faces and all edges.

Contact us for a quote request form.
Note: borders and panel layout will vary as panel sizes vary, and for level vs rake panels.

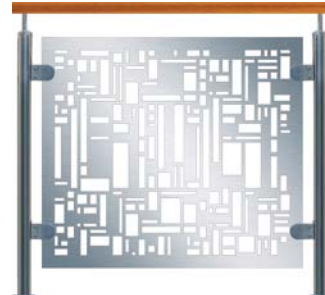
^ Aluminum will oxidize but with our clear powder coat finish it will reduce the oxidation and the oxidation that occurs will be more uniform

Examples of mounting with square newels and wood framing



Wood will be planed and fillet supplied for exposed areas (sand flush if desired).

Example of mounting to round stainless steel newels with glass clamps



Glass clamps may be used on flat sided wood or stainless steel as well as round stainless steel newels. Spacers will be provided for the glass clamps when 1/8" thick panels are ordered. Panels must be drilled or ordered drilled for the security pins.

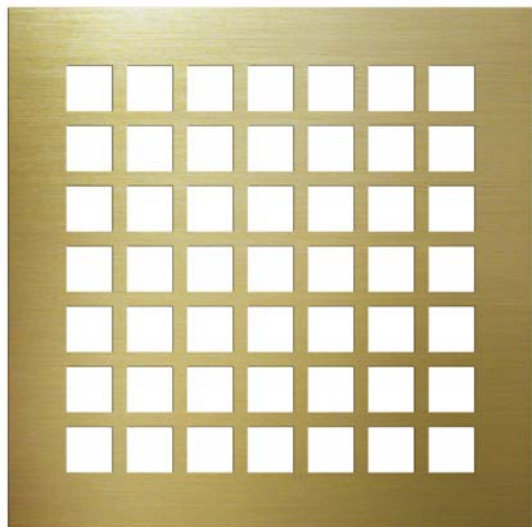


Flat sided newels
see page 31



Stainless steel 1.5" dia. newels
see page 45

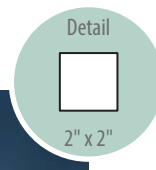
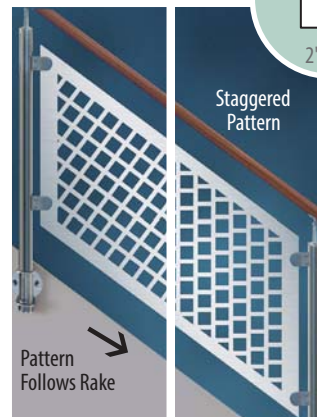
Glass Clamps	Flat sided newels	Interior 304 Stainless Steel	13.2206.000.12 & security pin 19.5015.022.00
		Exterior 316 Stainless Steel	14.2206.000.12 & security pin 19.5015.022.00
Glass Clamps	Stainless steel 1.5" dia newels	Interior 304 Stainless Steel	13.2206.038.12 & security pin 19.5015.022.00
		Exterior 316 Stainless Steel	14.2206.038.12 & security pin 19.5015.022.00



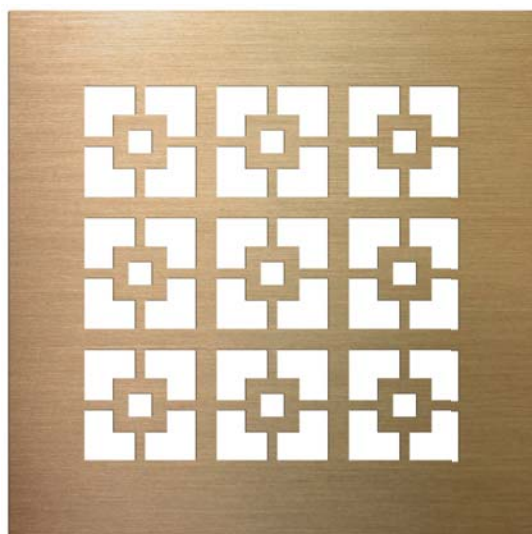
Shown 24" x 24" sample panel in Brass Satin #4 finish

SQUARE Pattern

model 300



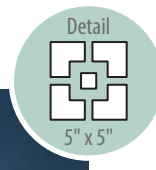
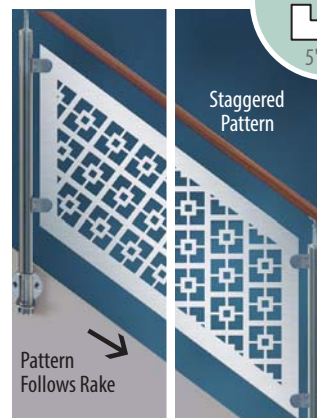
Made to order: custom sizes to your rise and run. Staggered pattern also available.



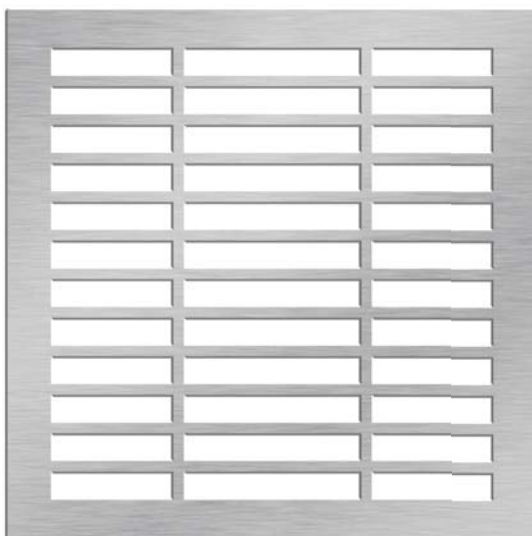
Shown 24" x 24" sample panel in Bronze Satin #4 finish

BOX LINK Pattern

model 302



Made to order: custom sizes to your rise and run. Staggered pattern also available.



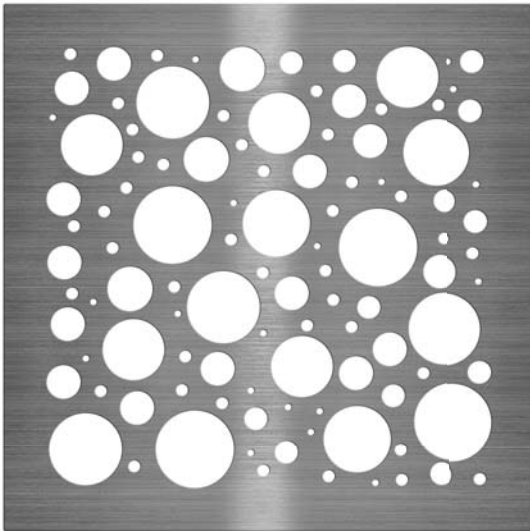
Shown 24" x 24" sample panel in Aluminum #4 finish

RECTANGLES Pattern

model 304



Made to order: custom sizes to your rise and run.



Shown 24" x 24" sample panel in Stainless Steel Satin #4 finish

CHAMPAGNE Pattern

model 380

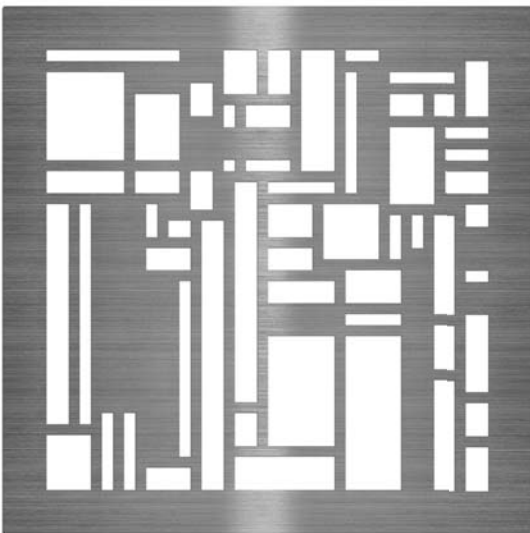


Random Pattern

Made to order: custom sizes to your rise and run. Champagne is a random organic design.



Pairing suggestion: Champagne pattern and our box newel models 4630 or 4660 (see page 7) with complementary design U or U1 with wood or stainless steel panels. Order plain sides where you are attaching the metal panels and full length solid internal blocking.



Shown 24" x 24" sample panel in Stainless Steel Satin #4 finish

CUBIC Pattern

model 381

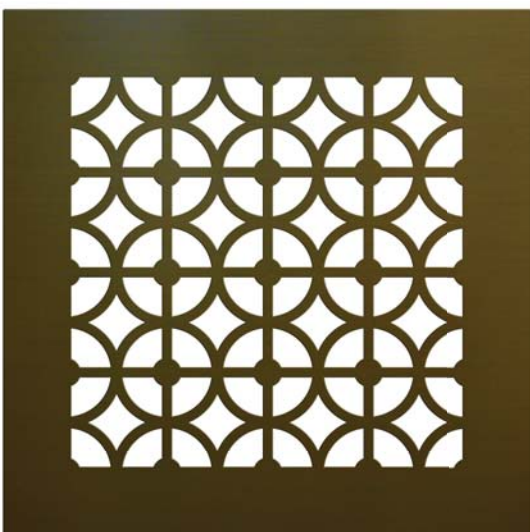


Pattern Follows Tread



Pattern Follows Rake

Made to order: custom sizes to your rise and run. Cubic is a random organic design.



Shown 24" x 24" sample panel in Dark Statuary Brass finish

QUARTER CIRCLE Pattern

model 308



Pattern Follows Tread



Pattern Follows Rake

Made to order: custom sizes to your rise and run.





Shown 24" x 24" sample panel in Light Statuary Bronze finish

HEART FLOWER Pattern

model 384



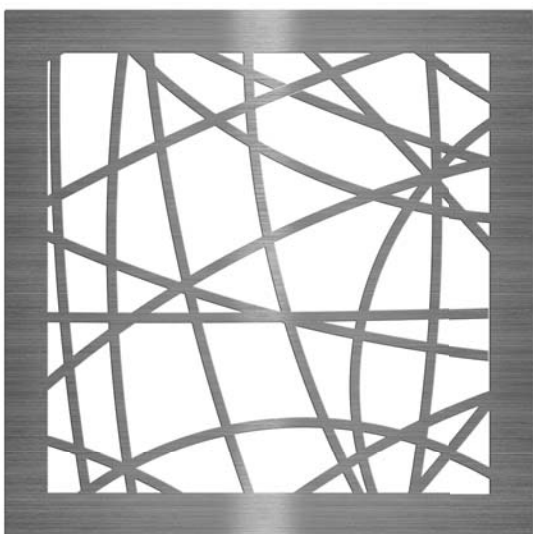
Pattern Follows Tread



Pattern Follows Rake



Made to order: custom sizes to your rise and run.



Shown 24" x 24" sample panel in Stainless Steel Satin #4 finish

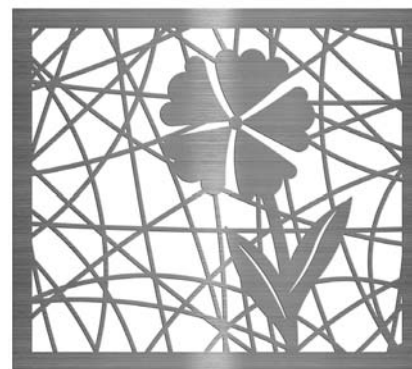
TANGLED Pattern

model 385



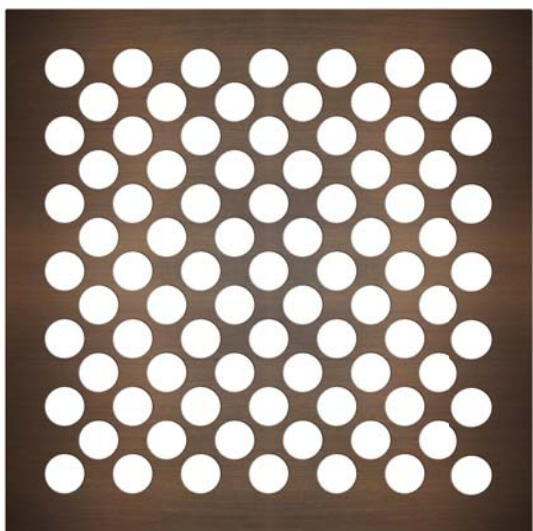
Random Pattern

Add our FLOWER1 to the Tangled Pattern or your own favorite shape.



Tangled Series with FLOWER1- 40" x 36"

Made to order: custom sizes to your rise and run. Tangled is a random organic design.



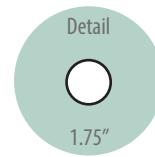
Shown 24" x 24" sample panel in Medium Statuary Brass finish

STAGGERED HOLES Pattern

model 321



Staggered Pattern



Made to order: custom sizes to your rise and run.



Designer Metal Wire Mesh Infill

Contact us for a quote request form. Note: visible patterns may vary with change in panel size and for level vs rake panels. Actual width & height of wire mesh panels may vary +/-1/4". The standard width of "U" or "hemmed" edging is 2" so they project beyond the glass clamp.

METAL SELECTION AND FINISH CHART

Code	Description	Infill	Edging
304M	Stainless Steel-304, Mill Finish	✓	
316M	Stainless Steel-316, Mill Finish (Exterior)	✓	
304	Stainless Steel-304, Brushed Finished		✓
316	Stainless Steel-316, Brushed Finished (exterior)		✓
304E	Stainless Steel-304, Electropolished [‡]	✓	✓
316E	Stainless Steel-316, Electropolished [‡] (exterior)	✓	✓
C/304	Copper [^] & Stainless Steel-304, Mill Finish- weave	✓	
S	Steel (RAW)	✓	✓
SP	Steel- Powder Coated (Interior)*	✓	✓
GS	Galvanized Steel (RAW)	✓	✓
GSP	Galvanized Steel- Powder Coated (Exterior)*	✓	✓

[^] Note copper will patina if left untreated.

[‡] Electropolishing creates a bright, smooth polished luster (not as shiny as Mirror Polished) and provides an excellent passivation of stainless steel.

* Select your Powder Coat color from RAL www.ralcolor.com

3 Ways to finish-off your Wire Mesh Infill edging



U Edging

When installed outdoors, will have weep holes for water drainage.



Hemmed Edging

When installed outdoors, will have weep holes for water drainage.

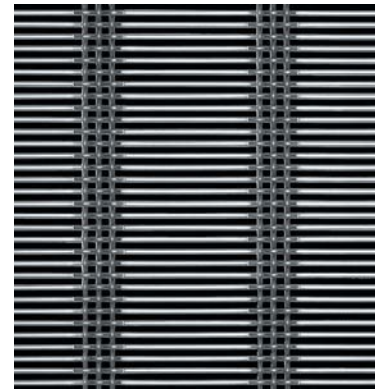
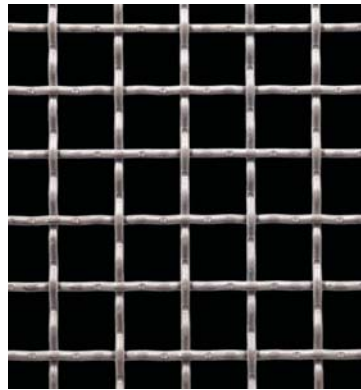
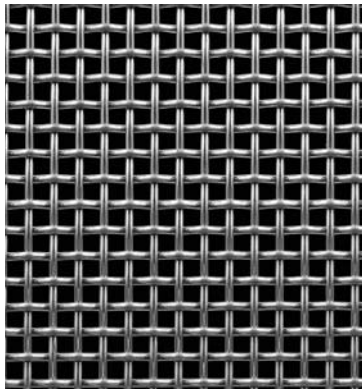


Angle Edging

Angle Edging is not as refined as U & Hemmed Edging and is suggested for outdoor use.

Designer Metal Wire Mesh Infill

Glass Clamp
Examples



1/4" Square Woven Weave 980

3/4" Square Intercrimp Weave 984

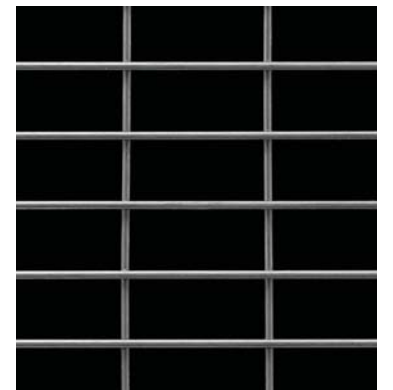
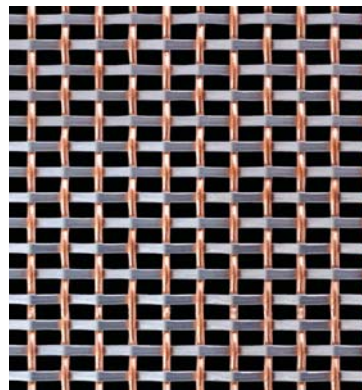
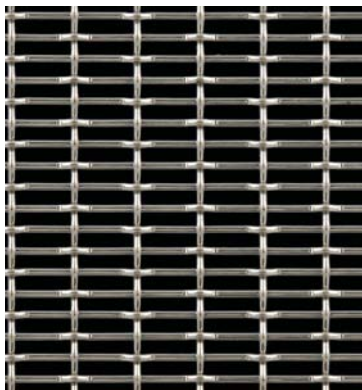
Aura™ 8857

Metal Options:	304M, 304E, 316M, 316E, S, SP, GS, GSP	304M, 304E, 316M, 316E, S, SP, GS, GSP	304M, 304E, 316M, 316E, S, SP, GS, GSP
Thickness of Wire/mesh	1/8" wire with 1/4" overall	1/8" wire with 1/4" overall	1/8 x .105 wire, with 3/8" overall
Thickness of edging	1/2"	1/2"	1/2"
Edging styles available +	U, H, A	U, H, A	U, H, A

Mounting to Newels-order components for desired installation

Glass Clamps (see page 45-46)	ROUND SERIES	Models 25T or 24T must use security pin	Models 25T or 24T must use security pin	Models 25T or 24T must use security pin
Glass Clamps (see page 30-31)	SQUARE SERIES	Models 24F or 28F must use security pin	Models 24F or 28F must use security pin	Models 24F or 28F must use security pin
Wood newels Wood framing	SQUARE SERIES	See page 50 for examples		

+ U edging & hemmed edging for exterior use will have weep holes for water drainage.



Chateau™ 3105

Shire™ 8148

2" x 1" Rectangle Welded Weave 988

Metal Options:	304M, 304E, 316M, 316E, S, SP, GS, GSP	304M, 304E, 316M, 316E, C/304	304M, 304E, 316M, 316E, S, SP, GS, GSP
Thickness of Wire/mesh	0.105" wire with 1/4" overall	1/16" wire with 1/8" overall	1/8" wire with 1/4" overall
Thickness of edging	1/2"	1/4"	1/2"
Edging styles available +	U, H, A	U, H, A	U, H, A

Mounting to Newels-order components for desired installation

Glass Clamps (see page 45-46)	ROUND SERIES	Models 25T or 24T must use security pin	Model 22T must use security pin	Models 25T or 24T must use security pin
Glass Clamps (see page 30-31)	SQUARE SERIES	Models 24F or 28F must use security pin	Model 22F must use security pin	Models 24F or 28F must use security pin
Wood newels Wood framing	SQUARE SERIES	See page 50 for examples		

+ U edging & hemmed edging for exterior use will have weep holes for water drainage.

Cable Systems Overview

Cable Made Easy – Let Oak Pointe design your cable system. See page 2 to see how easy we make it.

▶ We'll design your project to keep cables on the same plane

▶ Our systems will use the same fitting style whenever possible throughout the entire project

▶ Our fittings are more compact and less costly than the big expensive & unsightly turnbuckle styles

Stainless Steel

Our stainless steel cable, cable fittings and accessories are all 316 grade, unless otherwise noted and therefore suitable for interior or exterior use.

Handrail

Handrail is required on all cable systems to add support to the newels. Bottom rails are optional as long as newels are securely installed.

Newels

End newels - A post where the cable run begins or ends. Placement in relation to a wall may affect which cable fittings can be used. There is considerable tension applied to an end newel when the cable is properly tensioned. A substantial end post is required to prevent the newel from bending and causing the cable to sag. In wood a minimum of 3.5" x 3.5" end newels should be used. In stainless steel use our heavy duty 1.5" and 1.9" diameter round, rectangular or 2" square newels (not the 1.57" square newels). Oak Pointe fabricates 2" square aluminum newels which meets cable/cable manufacturers' requirements, unlike most off-the-shelf aluminum newels. End newel must be installed to prevent newels from deflecting or coming loose when the cables are tensioned.

Intermediate newels - A post that is positioned in the middle of a cable run. Cabling needs to be supported every 48", but a rail system needs newels to provide strength to keep it rigid and safe. So use a newel every 96" or less as necessary to meet local building codes.

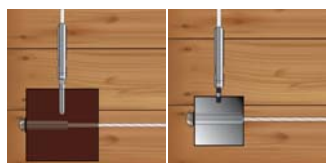
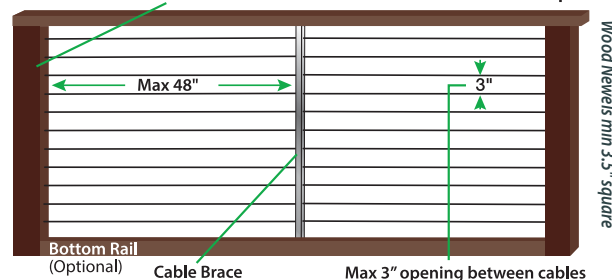
Cable braces - Cable will stretch and as a result it needs to be supported every 48". Intermediate newels will act as support and will be structural to the rail system but cable braces may be used where intermediate newels are not needed for strength but to maintain cable support every 48". Cable braces are thinner than newels and therefore less obtrusive than newels but their purpose is to support the cable and they do not supply any structural support to the railing system.

Newels at corners - Cable systems in wood or stainless steel may utilize a single newel or two newels at corners. The drawings below illustrate the design considerations and pros/cons of each option.



Photo courtesy of Taylor Made Home Solutions, Ralston, NE
Handrail: 6002, Newel: Malta Series 4000-350-SSB

Horizontal cable should be tensioned so there is no more than 1/4" flex in a 48" span.



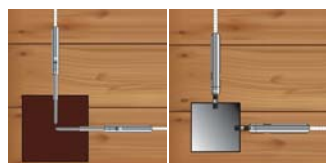
One corner newel- cable on same plane. Lag style and through post fittings on same newel.

PROS

Through post fittings cost less than lag style.

CONS

Some people prefer all of the fittings to match.



One corner newel- cable on same plane. Lag style fittings on both sides.

PROS

All fittings match.

CONS

Lag fittings cost more than through post fittings.



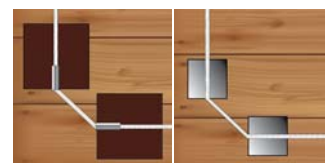
Two corner newels- cable on same plane. Cable stops at one newel and resumes at the next one. Any cable fittings can be used to start and stop these runs.

PROS

All fittings can match. Clean look at corner, some people don't like cable running across corners.

CONS

Requires 2 newels and more fittings than option where cable runs across corners which also increases the cost.



Two corner newels- cable on same plane. Cable runs across corners (not more than 45° angle). Any cable fittings can be used to start and stop these runs. When this option is used with wood newels, protector tubes should be used at the angles to prevent cable from gouging wood.

PROS

All fittings can match and requires less fittings so it is less expensive than stopping and starting the cable runs.

CONS

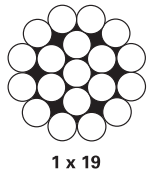
Requires 2 newels and potential aesthetic concerns with cable running across the corner.

NOTE: If the cable wraps 2 corners then a tensioning fitting will be needed on both ends of the cable run.

One corner newel- Cable NOT on same plane. Through post fittings on both sides. Pros- fittings match and are less than lag style. Cons- most people want to see their cable runs on the same plane and do not find this option acceptable.

Cable

Cable may be installed vertically or horizontally. Cable supplied by Oak Pointe has 1x19 construction. 1x19 is considered superior to other construction because it has superior breaking strength, is attractive, smooth to the touch and designed to support loads in tension with minimal stretch. The individual wires in 1x19 construction are much larger than those used in more flexible constructions. This makes our cable less susceptible to damage from abuse and it is also the reason why it does not stretch as much as other constructions.



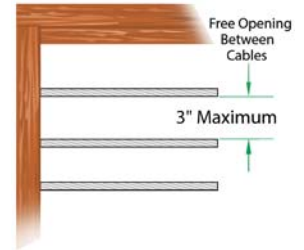
3/16" diameter cable should be used where higher minimum breaking strength is required or where a larger diameter is aesthetically desired.

Cable is flexible so cables should be installed no farther than 3" between each run (3-1/8" on center for 1/8" diameter cable). Certain field conditions and longer runs may require different spacing. If you'd like testing data please contact us. Horizontal cable should have a newel or cable brace every 48". Vertical cable should have a handrail/shoe rail brace every 24". Horizontal cable runs should be tensioned in the sequence shown in the chart below so there is no more than 1/4" flex in a 48" span when pulled with one finger.

Cable diameters offered:

Diameter	Minimum breaking strength
1/8"	1780 lbs
3/16"	4000 lbs

Other cable diameters available upon request: 1/4", 5/16" and 3/8"



Cable Fittings

Cable is attached to newels using cable fittings. There are fittings for level runs and for stair (rake) runs and some can be used for both situations. Some fittings tension the cable and others just act as a terminating point at the newel. Most applications require one tensioning fitting on one end and one non-tension fitting on the other end of the cable. Some fittings attach to the cable using a swaged-on stud (Oak Pointe will apply for you) and others attach to the cable using a swageless grip design. Each type of fitting has its advantages. There are 4 ways to order cable and their fittings from Oak Pointe:

1. Oak Pointe- cut cable and swage fitting to one end before shipping, use swageless fitting on other end (preferred)
2. Job site- cut cable in the field and attach with swageless fittings (preferred)
3. Oak Pointe- cut cable and swage fittings both ends before shipping. (not preferred)
4. Job site- cut cable in the field and attach with swaged fittings (uncommon)

Swaged fittings: Swaging requires special equipment so on most jobs with swaged fittings Oak Pointe sends the cable already swaged to one end to be used with a Swageless fitting on the other end. Swaged fittings are usually less expensive than the swageless type.

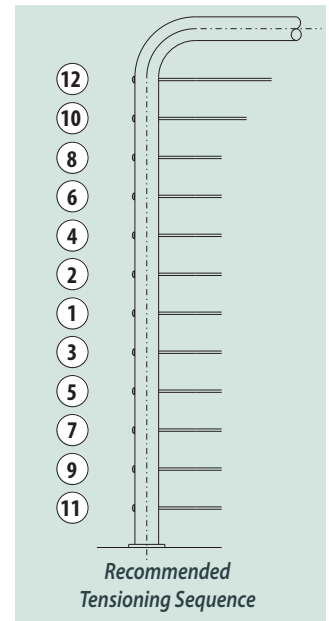
During the design phase of your project Oak Pointe will calculate what you need and your cables will be shipped with a swaged Ferrule or Threaded Swaging Stud attached to one end. The cable will be cut to the final length in the field. As with any installation method, we also recommend the use of special cable gripping pliers to keep the cable from turning when you tighten the fittings to tension the cable. Cable cutters and cable gripping pliers are shown on page 70.

Swaging can be done in the field on one or both ends with special equipment. Please call if you are interested.

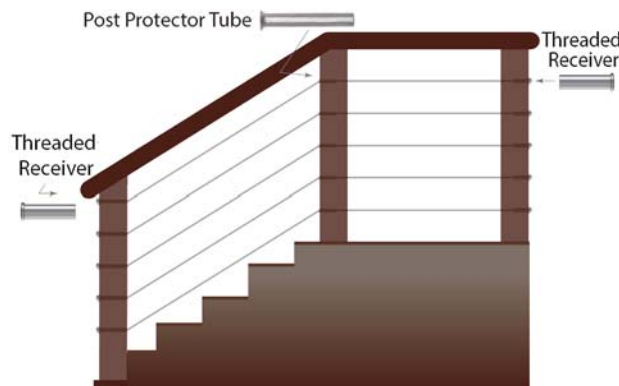
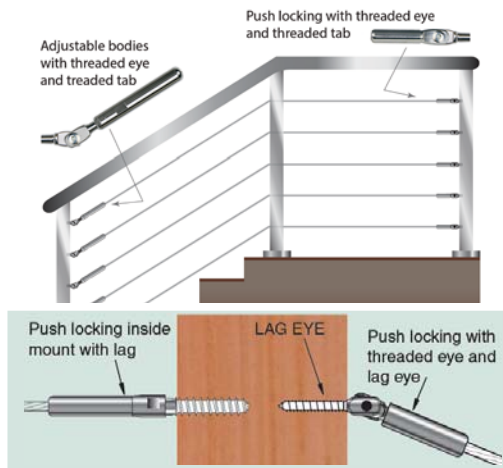
Swageless fittings: can only be used with 1x19 cable and are available for 1/8" and 3/16" diameters (specify when ordering).

Cables are installed into swageless fittings by hand at the job site and do not require special equipment, other than cable cutters & cable gripping pliers.

Swageless fittings are often more costly than swaged fittings. However, on smaller projects, using all swageless fittings can be cost effective.

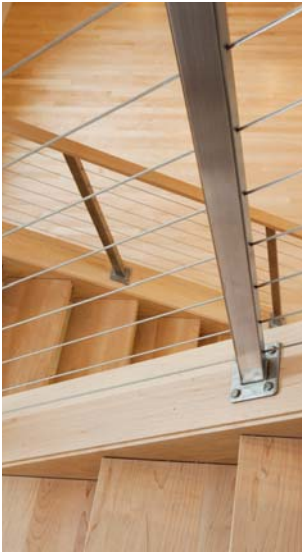


Rake-to-level or level-to-rake transitions - Transitions from rake-to-level or level-to-rake can be accomplished by bending the cable as shown in the two examples or the cable runs can be stopped and resumed using a common newel at the change with inside mount hardware- see example.



NOTE- Usually cable runs have a tensioning fitting on one end, but a tensioning fitting on both ends is needed in certain applications such as:

- Runs over 50', except runs over 25' with Threaded Receivers
- Cable runs that bend twice- e.g. level to rake & back to level, or applications using 2 newels at the corners. The cable spans both newels doing this through 2 turns.



step one

Choose your newels and cable braces

- a.) Square Wood Newels:
such as our Avenue i and Malta Series
- b.) Stainless Steel:
 - Round 1.5" and 1.9" diameter
- see Round Series pages 36-38
 - Square- 2" heavy duty. See page 59
- c.) Aluminum:
 - Square 2" with 1/4" thick wall
 - Exterior grade powder coating-
hundreds of color choices.
See standard colors on page 8



2" Square Newels & Newel Components

Powder Coated Aluminum - Exterior or Interior

Colors are in! Oak Pointe's aluminum newel comes in nine Standard colors with hundreds of other options available. With a heavy duty flange and 1/4" thick wall they are built with cable in mind, unlike other less substantial aluminum newels on the market today. We recommend our through newel cable fittings for use with our aluminum newels. ^ Our powder coat finish is exterior rated so these newels may be used on the interior or exterior.

Your newels will be fabricated for your specific job- cut to length, machined for your cable fittings and finished with the powder coat of your choice! [See standard colors on page 8 and www.ralcolor.com](http://www.ralcolor.com) for all of the possible choices.

The rail bracket will be attached to your newel with a curved (shown) or flat saddle (curved up to 2" diameter rail) based upon your hand rail choice and rail mounting screws will be included (no newel mounting screws). Bracket projection is 1.93".

Square Aluminum Newels -
heavy duty with 4.375" square flange. Oak Pointe will calculate the length & machining and fabricate for you.

Type	Use	Part Number	Size
Alum	Exterior	2SQ-NEWEL-X-ALUM	2" x 2" with 0.25" thick wall

Standard colors- see page 8

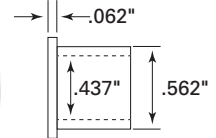
- Burnt Penny
- Gun Metal Metallic
- White Aluminum
- Almond
- Black
- White
- Poly Gold Vein
- Gold Vein
- Copper Vein

Touch-up kits provided



Canopy -
for 2" x 2" square aluminum newels

Type	Use	Part Number	Size
Alum	Exterior	2SQ-CANOPY-ALUM	4.75" x 4.75" x 1.875" thick



Nylon Bushing ^ for 2" square aluminum newels

Type	Use	Part Number	Size
Nylon-Black	All	NB-562x437	bore size 41/64" or 21/32"

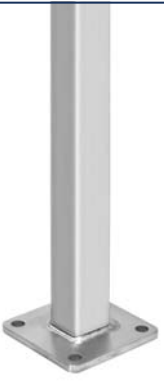


shown in Black Powder Coated Aluminum

shown in Raw Aluminum

^ NOTE: environmental conditions can cause corrosion when dissimilar metals touch one another. Our Nylon Bushing keeps the stainless steel fittings from coming into contact with the aluminum newels. The head side of the through newel fitting will hold the bushing in place while a dab of silicone (provided by others) will hold the cable side bushing in place.

2" Square Stainless Steel Newels & Newel Components



Heavy Duty Newels are a must for cable systems. Oak Pointe will fabricate 2" square stainless steel newels to your specifications. It is recommended that square heavy duty newels be ordered cut to your finished height and drilled or tapped and tapped as needed for your installation.

Square Newels - heavy duty with 4-15/16" square flange. Oak Pointe will calculate the length & machining and fabricate for you.

Type	Use	Part Number	Size
316	Exterior	2SQL-NEWEL-X-316	2" x 2" with .125" thick wall




Canopy - for 2" x 2" square newels

Type	Use	Part Number	Size
316	Exterior	2SQL-CANOPY-316	5-1/8" x 5-1/8" x 1" thick



Newel Base Flange - for use with 2" square tubes- welded connection

Type	Use	Part Number	Size
316	Exterior	2SQL-FLANGE-316	4-15/16" sq. Holes 7/16" dia. 3-1/2" on center



Newel Top Mount Fixed Bracket - for use with 2" square newels & up to 2" dia round rails

Type	Use	Part Number	Size
316	Exterior	2SQL-BRAC-FIXR-316	1.75" projection



Newel Top Mount Pivoting Bracket - for use with 2" square newels & up to 2" dia round rails


Type	Use	Part Number	Size
316	Exterior	2SQL-BRAC-PIVR-316	1.75" projection

Coming Soon

Newel Top Mount 90° Bracket - for use with 2" square newels & up to 2" dia round rails


Type	Use	Part Number	Size
316	Exterior	2SQL-BRAC-90R-316	1.75" projection

 **Order Screws:** 2 required per bracket. QS-113 bracket to stainless, QS-6 bracket to wood. See Page 72 for details.



Newel Top Mount Fixed Bracket - for use with 2" square newels & flat bottom rails

Type	Use	Part Number	Size
316	Exterior	2SQL-BRAC-FIXF-316	1.75" projection



Newel Top Mount Pivoting Bracket - for use with 2" square newels & flat bottom rails

Type	Use	Part Number	Size
316	Exterior	2SQL-BRAC-PIVF-316	1.75" projection

Coming Soon

Newel Top Mount 90° Bracket - for use with 2" square newels & flat bottom rails

Type	Use	Part Number	Size
316	Exterior	2SQL-BRAC-90F-316	1.75" projection

 **Order Screws:** 2 required per bracket. QS-113 bracket to stainless, QS-6 bracket to wood. See Page 72 for details.



Mounting screws not included

Newel Fascia Mount Bracket - for 2" square tubes. Bottom is closed with weep hole.

Type	Use	Part Number	Size
316	Exterior	2SQL-FASCIA-316	6"W x 6"H 2-7/8" projection



Square Handrail/Tubing

Type	Use	Part Number	Size
316	Exterior	2SQL-RAIL-240-316	2" x 2" x 240"L with 0.125" thick wall



End Cap - for handrail/newels 2" square

Type	Use	Part Number	Size
316	Exterior	2SQL-ECAP-316	2" x 2"

Cable Braces

Cable brace options (may use newels instead). Cable requires support every 48". Where you don't need a newel use cable braces. Braces are not a structural member of your rail system. In a wood framed system a wood member may be used as a cable brace or one of the metal options shown below.



Stainless Steel Cable Brace - 1/4" thick x 1" wide (trim to length required). Holes/slots drilled 3-1/8" on center.

Model	Application	Length	Hole Type	Nbr Holes
CAB-CB34.5-SS10	Level	34.5"	Round	10
CAB-CB40.5-SS12	Level	40.5"	Round	12
CAB-CBS34.5-SS10	Rake	34.5"	Slotted	10
CAB-CBS40.5-SS12	Rake	40.5"	Slotted	12

Aluminum Cable Brace - 3/4" x 3/4" x 42"L (trim to length required). Holes drilled 3-1/8" on center.

Model	Color	Application	Hole Type	Nbr Holes
CAB-CB42-ANAL-13	Anodized	Level	Round	13
CAB-CB42-BLAL-13	Black	Level	Round	13
CAB-CB42-ANAL	Anodized	Rake	Undrilled so slots can be drilled to match job	
CAB-CB42-BLAL	Black	Rake		



Order Plates: 2 per brace- CAB-FLP-CBS to attach to flat bottom rails, subrails, decks or treads. Screws not included.



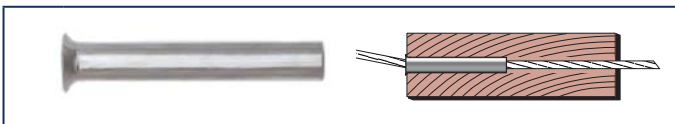
CAB-BCP
Brace Connector



CAB-BCPS
Brace Connector-
Stair

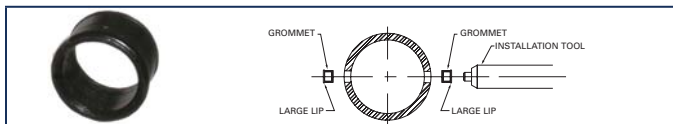
Order Connectors: 2 per brace- CAB-BCP for level & CAB-BCPS for rake. Screw included is only for wood applications.

Newel Accessories



Stainless Steel Newel Protector Tubes - are inserted into holes in wood newels where the cable enters or exits the newel at an angle to keep the cable from damaging the wood newel.

Type	Use	Part Number	Size
316	Exterior	CAB-CS-TUBE-4	3/4" L for use with 1/8" and 3/16" cable



Cable Grommets - Provides moisture barrier

Cable diameter	Square newels with .125" wall	Round newels with .156" wall
1/8" or 3/16"	CAB-G-C6-3	CAB-G-C6-3

In exterior applications, Cable Grommets can be useful by providing a moisture barrier to the inside of the stainless steel newels. The Grommets are made of black UV resistant Delrin® and are available for 1/8" or 3/16" cable diameters.

step two

Choose your Handrail

- Wood Handrails - see all of our wood handrails in our full line catalog. (for exterior use request exterior quote)
- Stainless Steel Handrails - square or round



Stainless Steel Square Handrails - see pages 24 and 59
Stainless Steel Round Handrails - see page 39

Bottom Rails



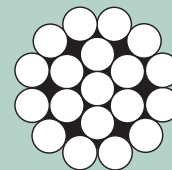
Wood can be 6002 rail or other shapes as specified



Stainless Steel- square rail can be used as a bottom rail with square newels and 1.5" diameter rail can be used with 1.5" diameter newels

step three

Choose your Cable Diameter



1 x 19

Cable diameters - also available 1/4", 5/16", 3/8"

Diameter	Part Nbr	Bore- Field Swaged^	Bore- Swaged by Oak Pointe (No Grommets)	
			Threaded Stud	Swaging Ferrule
1/8"	CAB-125	5/32"	11/32"	17/64"
3/16"	CAB-187	7/32"	15/32"	25/64"

3/16" diameter cable should be used where higher minimum breaking strength is required or where a larger diameter is aesthetically desired. See page 57.

Cable may be ordered cut to specific lengths or it can be ordered by the lineal foot and shipped on a spool. Cable is left hand lay, buffed and wiped giving a shiny surface.

^NOTE: If Cable Grommets (see above) are used then Bore is 1/4"

Delrin® is a DuPont registered trademark.

step four *Choose your fittings*

Fittings are for newels and posts in wood, wood with composite sleeves, stainless steel and other metals. Fittings to fasten to concrete are available- please contact our office for more information. Swageless fittings can only be used with 1x19 cable and are available for 1/8" and 3/16" diameters (specify when ordering).



Example of fitting for concrete

LEVEL APPLICATIONS		STAIR APPLICATIONS	
Tensioning Fittings	Non-Tensioning Fittings	Tensioning Fittings	Non-Tensioning Fittings
Threaded Receiver Swaged Fitting  see page 62	Hidden Push Locking Fitting Swageless Fitting  see page 64	Threaded Receiver Swaged Fitting  see page 66	Push Locking Threaded Eye Swageless Fitting  see page 68
Adjustable Bodies Swaged Fitting  see page 63	Hidden Pull Locking Fitting Swageless Fitting  see page 65	Threaded Receiver w/Swageless TS Stud Swageless Fitting  see page 66	Push Locking Pivoting Inside Mount II Swageless Fitting  see page 68
Threaded Receiver w/Swageless TS Stud Swageless Fitting  see page 63	Push Locking Inside Mount II Swageless Fitting  see page 65	Adjustable Bodies with Threaded Eye Swaged Fitting  see page 66	Fixed Jaw with Clip Swaged Fitting  see page 69
Push Locking Tensioner Inside Mount II Swageless Fitting  see page 64		Adjustable Jaw Tensioner Swaged Fitting  see page 67	Hidden Pull Locking Fitting Swageless Fitting  see page 69



POPULAR PAIRINGS

Level Applications

Adjustable Bodies	and	Push Locking Inside Mount II
Push Locking Tensioner Inside Mount II	and	Push Locking Inside Mount II
Threaded Receiver	either	Hidden Push Locking Fitting
		Hidden Pull Locking Fitting

Stair Applications

Adjustable Bodies with Threaded Eye	and	Push Locking Threaded Eye
Push Locking Pivoting Tensioner Inside Mount	and	Push Locking Pivoting Inside Mount II
Threaded Receiver	and	Hidden Pull Locking Fitting

Push Locking Pivoting Tensioner Inside Mount II Swageless Fitting  see page 67	Hidden Push Locking Fitting Swageless Fitting  see page 69
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Tensioning Fittings for Level Applications

Threaded Receiver

316 Stainless Steel

Swaged Fitting

Tensioning

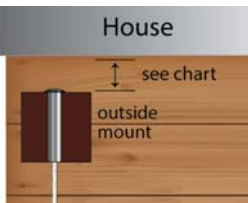
Level Application

Stair Application *See Page 66*



The **Threaded Receiver** is highly reliable and cost effective while being almost entirely concealed within the newel for a very aesthetically pleasing appearance. Drill the end newel posts and slide the receiver inside. The receiver is female-threaded to accept the male-threaded swaging stud (see below) that is attached to the cable. To tension the cable insert an Allen wrench into the head of the receiver and rotate the head around the male threads to draw the stud and cable inside the receiver.

To use the receiver the newels must be mounted no less than the distance in the chart below from the house or other barrier. Newels using inside mount fittings have no clearance restrictions.



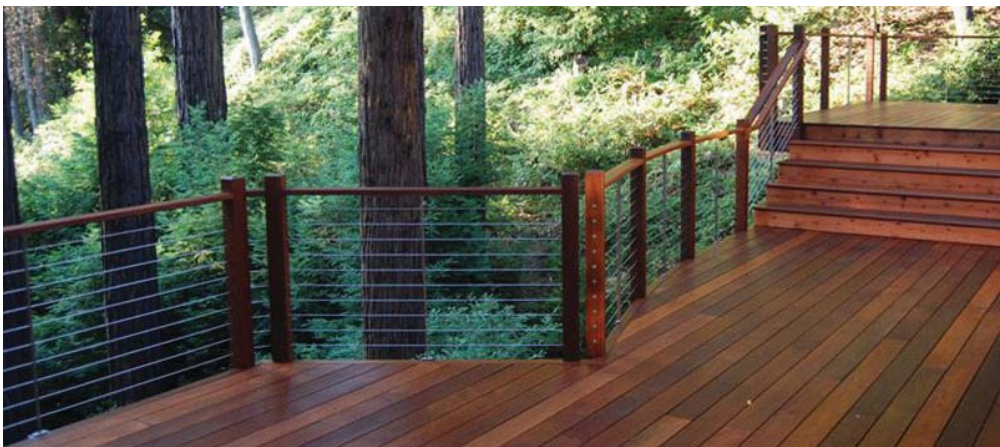
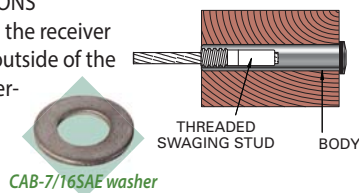
Threaded Receiver

	Min Distance *
CAB-R-6-12	1.67"
CAB-R-6-32	2.14"
CAB-R-6-62	3.67"

* Minimum distance between newel and house or other barrier.

WOOD APPLICATIONS

- For use with wood the receiver may rest against the outside of the newel as shown or be counter-bored. Order stainless steel washer 7/16 SAE & threaded swaging stud.



Wood cable system with Threaded Receiver (no visible fittings)



Threaded Receiver - for 1/8" or 3/16" cable

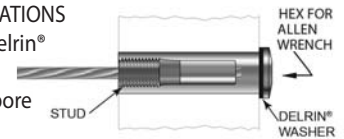
Newel Types	Receiver Part Nbr	"A"	"T"	Boring Instructions
Wood Square [^] - min 3.5"	CAB-R-6-62	3.5625"	5/16-24	29/64" through
1.5" Round Stainless	CAB-R-6-12	1.562"	5/16-24	29/64" both ends
1.9" Round Stainless	CAB-R-6-32	2.030"	5/16-24	29/64" both ends
2" Square Stainless	CAB-R-6-32	2.030"	5/16-24	29/64" both ends

[^] requires CAB-7/16SAE washer

Threaded Swaging Stud	for 1/8" Cable	for 3/16" Cable	Threading Size
Required: order separately	CAB-S-4	CAB-S-6	5/16-24

STAINLESS STEEL APPLICATIONS

- Receiver comes with a Delrin® (plastic) washer when used with stainless steel newels. Counterbore round newels so head sits flush. Also order threaded swaging stud.



Threaded Receivers

PROS

Very reliable cost effective fitting
Swaged fitting but no field swaging necessary. Let Oak Pointe do your swaging & pair with swageless fitting on other end

Body of fitting is concealed within newel, no big bulky buttons on outside of newel

CONS

Requires two newels at transitions (such as corners) to keep cable runs on the same plane on adjoining sides
Distance to barriers is restricted

Adjustable Bodies

316 Stainless Steel

Swaged Fitting

Tensioning

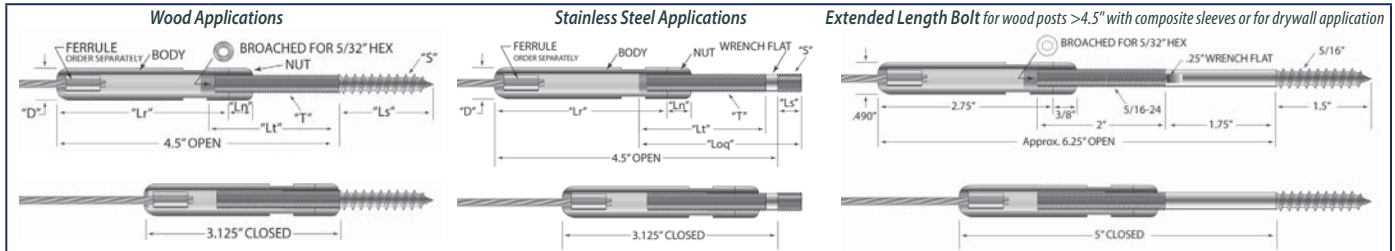
Level Application

Stair Application See Page 66



Wood cable system with Adjustable Bodies

The mounting end on our **Adjustable Bodies** tensioning fittings has a male thread that mates with the female thread within the body of the tensioner. The swaging ferrule (order separately) is swaged onto the cable and holds the cable inside the body. The body rotates on the cable and provides a considerable amount of take-up during tensioning with an open-end wrench. After tensioning, the lock nut locks the assembly in place.



Adjustable Bodies - for 1/8" or 3/16" cable

Newel Options	Cable dia.	Part Nbr	Ferrule Required [^]	"S"	"T"	"Ls"	"Lt"	"Loq"	"Ln"	"Lr"	"D"	Drill Size	Tap Size
Wood Square - min 3.5"	1/8"	CAB-A-JB6	CAB-F-4	5/16"	5/16-24 L.H.	1.50"	2.00"	3.75"	.375"	2.75"	.490"	7/32"	-
Composite Sleeve <4.5"	3/16"		CAB-F-6										
Stainless Steel- round or square	1/8"	CAB-A-JTB6	CAB-F-4	5/16-24	5/16-24 L.H.	.375"	2.00"	2.625"	.375"	2.75"	.490"	9/32"	5/16-24 2B
	3/16"		CAB-F-6										
Composite Sleeve >4.5" or attaching to wall through dryall*	1/8"	CAB-A-JB6-L	CAB-F-4	5/16"	5/16-24 L.H.	1.50"	2.00"	5.25"	.375"	2.75"	.490"	7/32"	-
3/16"	CAB-F-6												

[^] order Ferrule separately *Always be sure that walls are structurally sound for withstanding cable tensioning.

WOOD APPLICATIONS/ WOOD POSTS with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS
-This tensioner screws into end post for wood newels (min. 3.5") or composite newels less than 4.5". Tensioners with extended length hanger bolts can penetrate composite sleeves on newels >4.5" to fasten to wood core or for penetrating drywall to fasten to structural wall behind.* End of hanger bolt is broached for 5/32" hex for ease of installation. Requires Ferrule - order separately.



STAINLESS STEEL APPLICATIONS
- This tensioner screws into a drilled and tapped hole in stainless steel newels. Requires Ferrule - order separately.



Threaded Receiver with Swageless TS Stud

316 Stainless Steel

Swageless Fitting

Tensioning

Level Application

Stair Application See Page 66

Swageless TS Stud	for 1/8" Cable	for 3/16" Cable
Required: order separately	CAB-TS-4	Call



R-4 Threaded Receiver for use with Swageless TS Stud - for 1/8" or 3/16" cable

Newel Types	Receiver Part Nbr	"A"	"T"	Boring Instructions
Wood Square [^] - min 3.5"	CAB-R-4-62	3.5625"	5/16-24	29/64" through
1.5" Round Stainless	CAB-R-4-12	1.562"	5/16-24	29/64" both ends
1.9" Round Stainless	CAB-R-4-32	2.030"	5/16-24	29/64" both ends
2" Square Stainless	CAB-R-4-32	2.030"	5/16-24	29/64" both ends

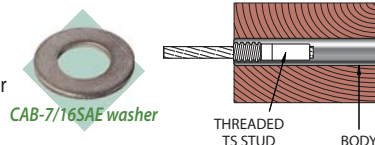
[^] requires CAB-7/16SAE washer

Clearance restriction that apply to R-6 Threaded Receivers also apply to R-4. See Page 62

The new **TS Stud** is a Swageless stud that works with the new R-4 series of Threaded Receivers. These receivers are externally the same size as the R-6 Series (same bore size) but accommodate the TS Stud. The TS Stud is not like other Swageless fittings- no jaws. Instead, it has a collet & set screw. Insert the cable into the stud and hand tighten the set screw. It holds the cable as well as the Threaded Swaging Stud on Page 62.

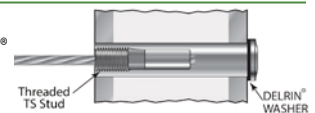
WOOD APPLICATIONS

- For use with wood the Receiver may rest against the outside (shown) of the newel or be counterbored. Order stainless steel washer CAB-7/16SAE and Swageless TS Stud.



STAINLESS STEEL APPLICATIONS

- This fitting comes with a Delrin[®] (plastic) washer when used with stainless steel newels. Counterbore round newels so head sits flush. Also order Swageless TS Stud.

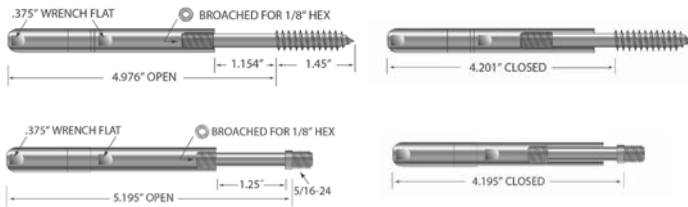


Push Locking Tensioner Inside Mount II

- 316 Stainless Steel
- Swageless Fitting
- Tensioning
- Level Application
- Stair Application See Page 67



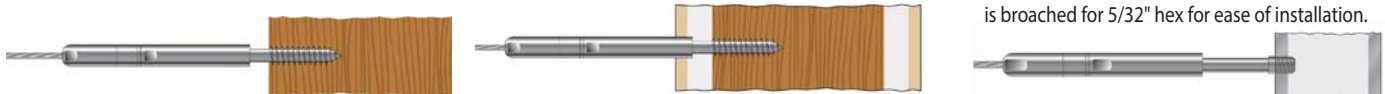
Our **Push Locking Tensioner Inside Mount II** fitting should be used for level applications only. This fitting is comprised of Hanger Bolt or Threaded Bolt and Push Locking body which has the swageless wedges to grasp the cable. Tension is created by securing the post-side section of the body onto the machine treads while preventing the cable-side of the body from turning. The wrench flat at the back end of the fitting allows the hanger bolt version to be used with newels with composite sleeves or mounting through drywall.*



Push Locking Tensioner Inside Mount II - for 1/8" or 3/16" cable				
Newel Types	Cable dia.	Part Nbr	Drill Size	Tap Size
Wood Square- min 3.5"	1/8"	CAB-PLT-LAG4	7/32"	-
Composite Sleeve (all)	3/16"	CAB-PLT-LAG6	7/32"	-
Stainless Steel- round or square	1/8"	CAB-PLT-IMTH4	9/32"	5/16-24
	3/16"	CAB-PLT-IMTH6	9/32"	2B
Attaching to wall through drywall*	1/8"	CAB-PLT-LAG4	7/32"	-
	3/16"	CAB-PLT-LAG6	7/32"	-

WOOD APPLICATIONS/ WOOD POSTS with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS -This tensioner screws right into a Wood Newel End post, a Wood Post with Composite Sleeve or through Drywall to fasten to the structural wall behind.* End of hanger bolt is broached for 5/32" hex for ease of installation.

STAINLESS STEEL APPLICATIONS - This tensioner screws into a drilled and tapped hole in stainless steel newels. End of threaded bolt is broached for 5/32" hex for ease of installation.



*Always be sure that walls are structurally sound for withstanding cable tensioning.

Non-Tensioning Fittings for Level Applications

When you have shorter cable runs or runs that do not bend more than once, you do not need a tensioning fitting on both ends. Save money by using these less expensive fittings.

Hidden Push Locking Fitting

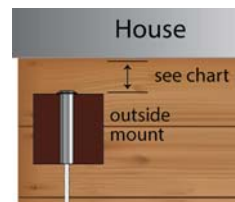
- 316 Stainless Steel
- Swageless Fitting
- Non-Tensioning
- Level Application
- Stair Application See Page 69



The **Hidden Push Locking Fitting** is a swageless non-tensioning option that can be used with any tensioning device. It has the same appearance as the Threaded Receiver and when paired with it they give you a cable rail system with no visible hardware between posts. Attach the tensioner to one end post and the Hidden Push Locking Fitting to the other end post, cut the cable to the proper length and push it into the locking fitting and then tension the cable. To use this fitting the newels must be mounted no less than the distance in the chart below from the house or other barrier. Newels using inside mount fittings have no clearance restrictions.



Newel Types	Part Nbr		Bore Size
	for 1/8" Cable	for 3/16" Cable	
Wood Square^ - min 3.5"	CAB-PL-4-12	CAB-PL-6-12	29/64"
1.5" Round Stainless Steel	CAB-PL-4-12	CAB-PL-6-12	29/64"
1.9" Round Stainless Steel	CAB-PL-4-2.030	CAB-PL-6-2.030	29/64"
2" Square Stainless Steel	CAB-PL-4-2.030	CAB-PL-6-2.030	29/64"



	Min Distance*
CAB-PL-X-12	1.67"
CAB-PL-X-2.030	2.13"

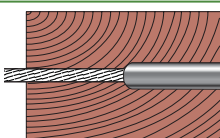
* Minimum distance between newel and house or other barrier.



^ requires CAB-7/16SAE washer

WOOD APPLICATIONS

- For use with wood the Hidden Push Locking Fitting may rest against the outside (shown) of the newel or be counterbored. Order stainless steel washer CAB-7/16SAE.



STAINLESS STEEL APPLICATIONS

- This fitting comes with a Delrin® (plastic) washer when used with stainless steel newels. Counterbore round newels so head sits flush.



Hidden Pull Locking Fitting

316 Stainless Steel

Swageless Fitting

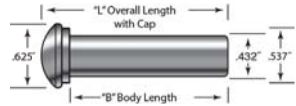
Non-Tensioning

Level Application

Stair Application See Page 69



The Hidden Pull Locking Fitting is a swageless non-tensioning option that can be used with any tensioning device. This fitting has a button head but when paired with the Threaded Receiver they give you a cable rail system with no visible hardware between posts. Attach the tensioner to one end post and the Hidden Pull Locking Fitting to the other end post. Pull the cable all the way through the Hidden Pull Locking Fitting, tension the cable, then cut the excess cable off with a 4" right angle grinder or one of our grinding wheels. Press on the stainless steel cap and you are finished! To use this fitting the newels must be mounted no less than the distance in the chart below from the house or other barrier. Newels using inside mount fittings have no clearance restrictions.



Hidden Pull Locking Fitting - for 1/8" or 3/16" cable

Newel Types	Part Nbr		"B" Body	"L" Overall Length	Bore size
	for 1/8" Cable	for 3/16" Cable			
Wood Square- min 3.5" ^	CAB-PUL-4-12	CAB-PUL-6-12	1.562"	1.825"	29/64"
1.5" Round Stainless Steel	CAB-PUL-4-12	CAB-PUL-6-12	1.562"	1.825"	29/64"
1.9" Round Stainless Steel	CAB-PUL-4-2.030	CAB-PUL-6-2.030	2.030"	2.266"	29/64"
2" Square Stainless Steel	CAB-PUL-4-2.030	CAB-PUL-6-2.030	2.030"	2.266"	29/64"

House	Min Distance*
see chart outside mount	CAB-PUL-X-12 1.77"
	CAB-PUL-X-2.030 2.24"

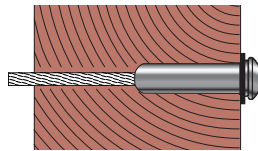
* Minimum distance between newel and house or other barrier.



^ requires CAB-7/16SAE washer

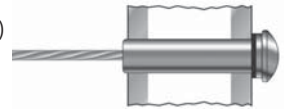
WOOD APPLICATIONS

- For use with wood the Hidden Pull Locking Fitting may rest against the outside (shown) of the newel or be counterbored. Order stainless steel washer CAB-7/16SAE.



STAINLESS STEEL APPLICATIONS

- This fitting comes with a Delrin® (plastic) washer when used with stainless steel newels. Counterbore round newels so head sits flush.



Push Locking Inside Mount II

316 Stainless Steel

Swageless Fitting

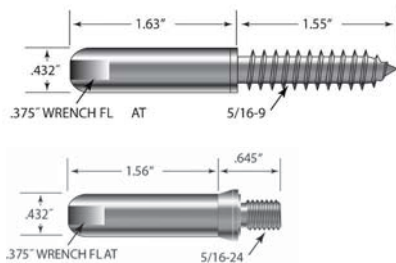
Non-Tensioning

Level Application

Stair Application See Page 68



Push Locking Inside Mount II fittings are for level runs where the back side of the newel is not accessible or where the desired installation is for inside mount fittings. Use with any tensioning fittings. Attach the tensioning device to one end newel, cut the cable to the correct length, push the cable into the swageless fitting, tension the cable and you are finished! The wrench flat at the back end of the fitting allows the hanger bolt version to be used with newels with composite sleeves or mounting through drywall.*



Push Locking Inside Mount - for 1/8" or 3/16" cable

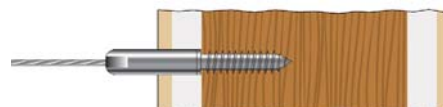
Newel Types	Cable dia.	Part Nbr	Drill Size	Tap Size
Wood Square- min 3.5" Composite Sleeve (all)	1/8"	CAB-PL-LAG4	7/32"	-
	3/16"	CAB-PL-LAG6	7/32"	-
Stainless Steel- round or square	1/8"	CAB-PL-IMTH4	9/32"	5/16-24
	3/16"	CAB-PL-IMTH6	9/32"	5/16-24
Attaching to wall through drywall*	1/8"	CAB-PL-LAG4	7/32"	-
	3/16"	CAB-PL-LAG6	7/32"	-

*Always be sure that walls are structurally sound for withstanding cable tensioning.

WOOD APPLICATIONS/ WOOD POSTS with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS
- This non-tensioning fitting screws right into a Wood Newel End post, a Wood Post with Composite Sleeve or through Drywall to fasten to the structural wall behind*.



Wood post min. 3.5" x 3.5"



Wood post w/composite sleeve

STAINLESS STEEL APPLICATIONS
- The Push Locking Inside Mount II threaded bolt fastens into a drilled and tapped hole in stainless steel newels.



Photo courtesy of E.F. San Juan, Inc. Youngstown, FL



Tensioning Fittings for Stair Applications

Threaded Receiver

316 Stainless Steel

Swaged Fitting

Tensioning

Stair Application

Level Application See Page 62



See page 62 for full specifications

Our very popular **Threaded Receiver** and **Threaded Receiver with Swageless TS Stud** are also well suited for stair applications on round* or square newels. In fact, they can be used on rake or severe pitches up to 35 degree without boring holes at an angle which then required beveled washers. Drill level holes and bend the cable. To use the receivers the newels must be mounted no less than the distance in the chart on page 62 from the house or other barrier. For Threaded Receiver ordering information, see page 62 and for Threaded Receiver with Swageless TS Stud see page 63.

Threaded Receiver with Swageless TS Stud

316 Stainless Steel

Swageless Fitting

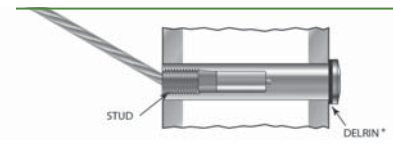
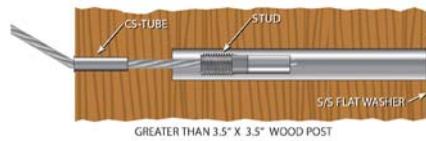
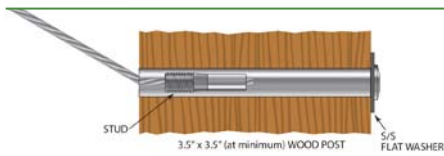
Tensioning

Stair Application

Level Application See Page 63



Threaded TS Stud



Adjustable Bodies with Threaded Eye

316 Stainless Steel

Swaged Fitting

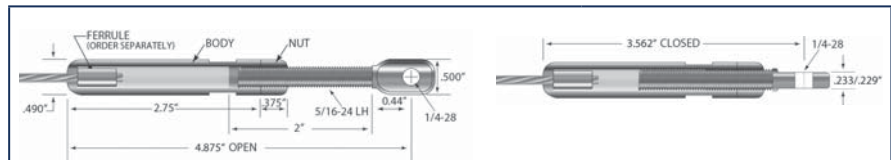
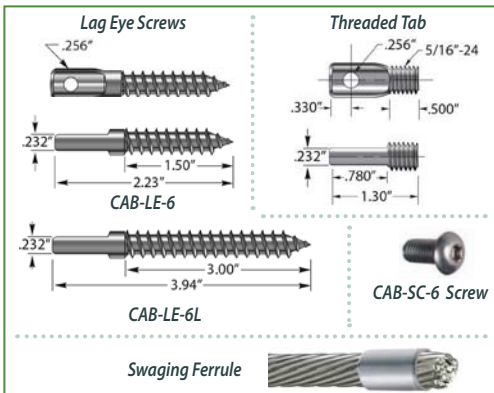
Tensioning

Stair Application

Level Application See Page 63



This **Adjustable Bodies with Threaded Eye** is a tensioning fitting. The mounting end has a male thread that mates with the female thread within the body of the tensioner. The swaging ferrule (order separately) is swaged onto the cable and holds the cable inside the body. The body rotates on the cable and provides a considerable amount of take-up during tensioning with an open-end wrench. After tensioning, the lock nut locks the assembly in place. NOTE: If you want your cable to be centered on your newel, then the Lag Eye or Threaded Tabs must be installed 1/4" off center. For a tension fitting that easily centers your cable, but costs more, see our Adjustable Jaw Tensioner fittings below on page 67.



Adjustable Bodies with Threaded Eye - for 1/8" or 3/16" cable

Newel Types	Cable dia.	Part Nbr	NOTE: these parts are required- order separately			Drill Size	Tap Size
			Ferrule Nbr	Screw Nbr	Lag Eye/Threaded Tab		
Wood Square- min 3.5" Composite Sleeve <4.5"	1/8"	CAB-A-JTE6	CAB-F-4	CAB-SC-6	CAB-LE-6	7/32"	-
	3/16"		CAB-F-6				
Stainless Steel - round or square	1/8"	CAB-A-JTE6	CAB-F-4	CAB-SC-6	CAB-TT-6B	9/32"	5/16-24 UNF
	3/16"		CAB-F-6				
Composite Sleeve >4.5" or attaching to wall through drywall*	1/8"	CAB-A-JTE6	CAB-F-4	CAB-SC-6	CAB-LE-6L	7/32"	-
	3/16"		CAB-F-6				

WOOD APPLICATIONS - The Lag Eye screws into a wood newel end post (minimum 3.5") and the fitting attaches to it. Requires ferrule, screw & lag eye - order all separately.

STAINLESS STEEL APPLICATIONS - The threaded tab screws into a drilled and tapped hole in stainless steel newels and the fitting attaches to it. Requires ferrule, screw & threaded tab - order all separately.

WOOD POSTS (>4.5") with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS - Ordered with the extended length lag eye screw this tensioner can penetrate composite sleeves on newels greater than 4.5" to fasten to the wood core (smaller newels use standard lag eye) or for penetrating drywall to fasten to the structural wall behind. *

*Always be sure that walls are structurally sound for withstanding cable tensioning.

Adjustable Jaw Tensioner

316 Stainless Steel

Swaged Fitting

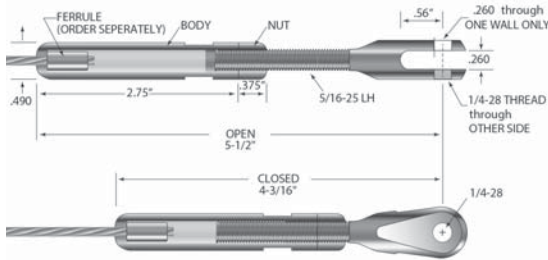
Tensioning

Stair Application

NOTE: For details on CAB-F-4, CAB-F-6, CAB-SC-6, CAB-LE-6, CAB-LE-6L, see page 66



Unlike many turnbuckles, our **Adjustable Jaw Tensioner** has no sharp edges, no crevices to collect dust or dirt, no unsightly nuts on the end, ugly swaged shanks or anything that will scratch or snag. The clevis end allows the lag eye or thread tab to be mounted centered on the newel which is not the case with threaded eye ends. The swaging ferrule is swaged onto the cable and holds the cable inside the body. The body rotates on the cable and provides considerable amount of take-up during tensioning with an open end wrench. After tensioning the lock nut locks the assembly in place. Use with our **Fixed Jaw with Clip** fitting. For a similar but less expensive option see our **Adjustable Bodies with Threaded Eye** on page 66.



Adjustable Jaw Tensioner - for 1/8" or 3/16" cable

Newel Types	Cable dia.	Part Nbr	NOTE: these parts are required- order separately			Drill Size	Tap Size
			Ferrule Nbr	Screw Nbr	Lag Eye/Threaded Tab		
Wood Square- min 3.5"	1/8"	CAB-A-J62	CAB-F-4	CAB-SC-6	CAB-LE-6	7/32"	-
Composite Sleeve ≤4.5"	3/16"		CAB-F-6				
Stainless Steel - round or square	1/8"	CAB-A-J62	CAB-F-4	CAB-SC-6	CAB-TT-6B	9/32"	5/16-24 UNF
	3/16"		CAB-F-6				
Composite Sleeve >4.5" or attaching to wall through drywall*	1/8"	CAB-A-J62	CAB-F-4	CAB-SC-6	CAB-LE-6L	7/32"	-
	3/16"		CAB-F-6				

WOOD APPLICATIONS - The Lag eye screws into a wood newel end post (minimum 3.5") and the fitting attaches to it. Requires ferrule, screw & lag eye - order all separately.



STAINLESS STEEL APPLICATIONS - The threaded tab screws into a drilled and tapped hole in stainless steel newels and the fitting attaches to it. Requires ferrule, screw & threaded tab- order all separately.



WOOD POSTS (>4.5") with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS - Ordered with the extended length lag eye screw this tensioner can penetrate composite sleeves on newels greater than 4.5" to fasten to the wood core (smaller newels use standard lag eye) or for penetrating drywall to fasten to the structural wall behind.*

*Always be sure that walls are structurally sound for withstanding cable tensioning.

Push Locking Pivoting Tensioner Inside Mount II

316 Stainless Steel

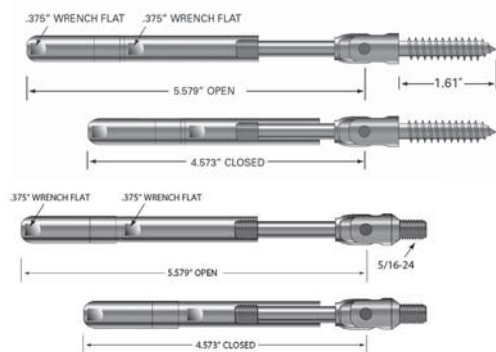
Swageless Fitting

Tensioning

Stair Application

Level Application See Page 64

Our **Push Locking Pivoting Tensioner Inside Mount II** fitting is a great option for stair applications. It can be used with any fitting on the opposite end. This fitting consists of two pieces, the pivoting lag/bolt and swageless Push-Locking body. Install the lag or bolt into the newel using the hinged arm as a lever. Tension is accomplished by securing the post-side portion of the body onto the machine threads while keeping the cable side segment of the body from turning. Use the .375" wrench flats and always use cable tensioning pliers when gripping the cable.



Push Locking Pivoting Tensioner Inside Mount II - for 1/8" or 3/16" cable

Newel Types	Cable dia.	Part Nbr	Drill Size	Tap Size
Wood Square- min 3.5"	1/8"	CAB-PLPT-LAG4	7/32"	-
Composite Sleeve ≤4"	3/16"	CAB-PLPT-LAG6		
Stainless Steel- round or square	1/8"	CAB-PLPT-IMTH4	9/32"	5/16-24
	3/16"	CAB-PLPT-IMTH6		
Composite Sleeve >4" or attaching to wall through drywall*	1/8"	CAB-PLPT-LAG4-L	7/32"	-
	3/16"	CAB-PLPT-LAG6-L		

*Always be sure that walls are structurally sound for withstanding cable tensioning.

WOOD APPLICATIONS - This pivoting tensioner screws into a wood end post (minimum 3.5") or wood newel with composite sleeve 4" or less and is all you need for the tensioning end of a stair run.



STAINLESS STEEL APPLICATIONS - This pivoting tensioner screws into a drilled and tapped hole in round or square stainless steel newels and is all you need for the tensioning end of a stair run.



WOOD POSTS (>4") with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS - Ordered with the extended length lag screw this tensioner can penetrate composite sleeves on newels greater than 4" to fasten to the wood core (smaller newels use standard lag screw) or for penetrating drywall to fasten to the structural wall behind.*



Non-Tensioning Fittings for Stair Applications

Push Locking Threaded Eye

316 Stainless Steel

Swageless Fitting

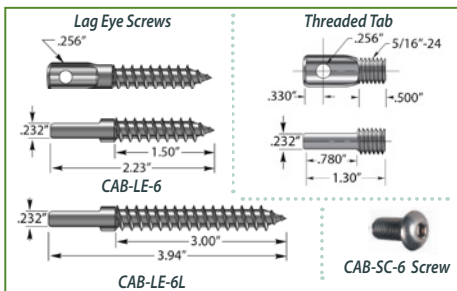
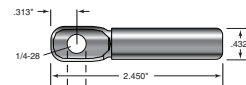
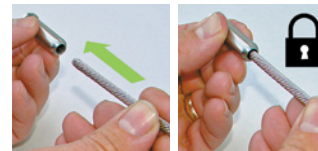
Non-Tensioning

Stair Application

Level Application See Page 65



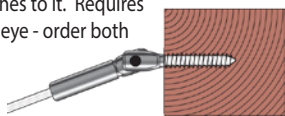
Push Locking Threaded Eye fittings are for use on rakes and severe pitches. On the other end use any tensioning fitting. Attach the tensioning device on one end newel, cut the cable to the correct length, push the cable into the swageless fitting, tension the cable and you are finished! NOTE: if you want your cable to be centered on your newel, then the Lag Eye or Threaded Tabs must be installed 1/4" off center.



Push Locking Threaded Eye - for 1/8" or 3/16" cable

Newel Types	Cable dia.	Part Nbr	NOTE: these parts are required- order separately		Drill Size	Tap Size
			Screw Nbr	Lag eye/tab		
Wood Square- min 3.5"	1/8"	CAB-PL-TE-4	CAB-SC-6	CAB-LE-6	9/32"	-
Composite Sleeve ≤4.5"	3/16"	CAB-PL-TE-6	CAB-SC-6	CAB-LE-6	9/32"	-
Stainless Steel - round or square	1/8"	CAB-PL-TE-4	CAB-SC-6	CAB-TT-6B	9/32"	5/16-24 2B
Composite Sleeve >4.5" or attaching to wall through drywall*	1/8"	CAB-PL-TE-4	CAB-SC-6	CAB-LE-6L	7/32"	-
	3/16"	CAB-PL-TE-6	CAB-SC-6	CAB-LE-6L	7/32"	-

WOOD APPLICATIONS - The Lag eye screws into a wood newel end post (minimum 3.5") and the fitting attaches to it. Requires screw & lag eye - order both separately.



STAINLESS STEEL APPLICATIONS - The threaded tab screws into a drilled and tapped hole in stainless steel newels and the fitting attaches to it. Requires screw & threaded tab - order both separately.



WOOD POSTS (>4.5") with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS - Ordered with the extended length lag eye screw this tensioner can penetrate composite sleeves on newels greater than 4.5" to fasten to the wood core (smaller newels use standard lag eye) or for penetrating drywall to fasten to the structural wall behind.*

*Always be sure that walls are structurally sound for withstanding cable tensioning.

Push Locking Pivoting Inside Mount II

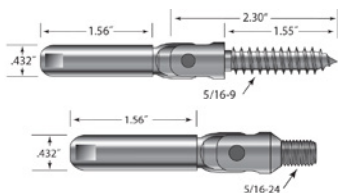
316 Stainless Steel

Swageless Fitting

Non-Tensioning

Stair Application

Level Application See Page 65



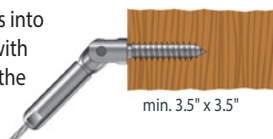
Push Locking Pivoting Inside Mount II fittings are an easy to use and install non-tension swageless fitting for stair applications. Install the lag or bolt into the newel using the hinged arm as a lever.

Push Locking Pivoting Inside Mount II - for 1/8" or 3/16" cable

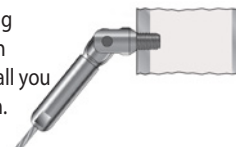
Newel Types	Cable dia.	Part Nbr	Drill Size	Tap Size
Wood Square- min 3.5" Composite Sleeve ≤4"	1/8"	CAB-PLP-LAG4	7/32"	-
	3/16"	CAB-PLP-LAG6		
Stainless Steel- round or square	1/8"	CAB-PLP-IMTH4	9/32"	5/16-24
	3/16"	CAB-PLP-IMTH6		
Composite Sleeve >4" or attaching to wall through drywall*	1/8"	CAB-PLP-LAG4-L	7/32"	-
	3/16"	CAB-PLP-LAG6-L		



WOOD APPLICATIONS - This pivoting fitting screws into a wood end post (minimum 3.5") or wood newel with composite sleeve 4" or less and is all you need for the non-tensioning end of a stair run. Newels with composite sleeves greater than 4" or attaching to wall through drywall, use extended length lag.



STAINLESS STEEL APPLICATIONS - This pivoting fitting screws into a drilled and tapped hole in round or square stainless steel newels and is all you need for the non-tensioning end of a stair run.



Photos courtesy of E.F. San Juan, Inc. Youngstown, FL

Fixed Jaw with Clip

316 Stainless Steel

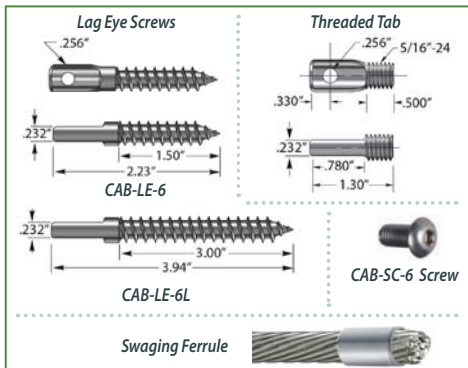
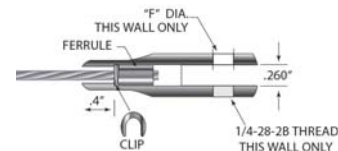
Swaged Fitting

Non-Tensioning

Stair Application



The **Fixed Jaw with Clip** has a clevis end so it is paired with our **Adjustable Jaw Tensioner** fitting. The clevis end allows the lag eye or threaded tab to be mounted centered on the newel which is not the case with fittings that have threaded eye ends. The clip allows cable to be swaged by Oak Pointe before arriving at the job. Slide the cable with the attached ferrule through the **Fixed Jaw with Clip** and apply the clip (comes with part) with a pair of pliers, then pull the cable back into the fitting. Holes on intermediate posts need larger through holes to allow the cable with the ferrule attached to pass through.



Fixed Jaw with Clip - for 1/8" or 3/16" cable

Newel Types	Cable dia.	Part Nbr	NOTE: these parts are required- order separately			Drill Size	Tap Size
			Ferrule Nbr	Screw Nbr	Lag Eye/Threaded Tab		
Wood Square- min 3.5"	1/8"	CAB-F-JC2-4	CAB-F-4	CAB-SC-6	CAB-LE-6	7/32"	-
Composite Sleeve <4.5"	3/16"	CAB-F-JC2-6	CAB-F-6				
Stainless Steel - round or square	1/8"	CAB-F-JC2-4	CAB-F-4	CAB-SC-6	CAB-TT-6B	9/32"	5/16-24 UNF
	3/16"	CAB-F-JC2-6	CAB-F-6				
Composite Sleeve >4.5" or attaching to wall through dryall*	1/8"	CAB-F-JC2-4	CAB-F-4	CAB-SC-6	CAB-LE-6L	7/32"	-
	3/16"	CAB-F-JC2-6	CAB-F-6				

*Always be sure that walls are structurally sound for withstanding cable tensioning.

Hidden Pull Locking Fitting

316 Stainless Steel

Swageless Fitting

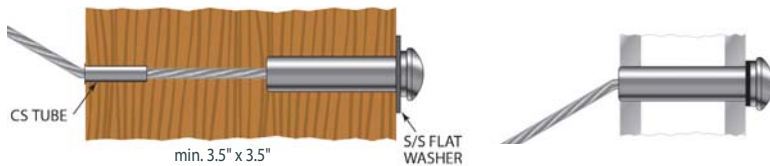
Non-Tensioning

Stair Application

Level Application See Page 65



The **Hidden Pull Locking Fitting** can be used on stairs and applications with a pitch while boring the newel horizontally! No more beveled washers! For use with wood newels use the Stainless Steel Newel Protector Tubes (CAB-CS-TUBE-4 on page 60) where the cable exits at an angle to protect the newel. For use with metal newels it is recommended that the fitting length be the same as the width/diameter of your newel. See ordering information on page 65.



Hidden Push Locking Fitting

316 Stainless Steel

Swageless Fitting

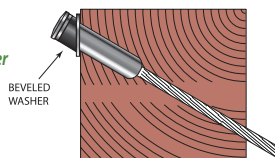
Non-Tensioning

Stair Application

Level Application See Page 64



The **Hidden Push Locking** non-tensioning swageless fittings may be used on stairs or severe pitches with square newels and our stainless steel beveled washers. Not available for round newels. With stainless steel newels use the Delrin® washer (comes with part when ordered for stainless steel newel) between the beveled washer & the newel. With wood newels you have the option of using the beveled washer or just boring the hole on an angle and countersinking the receiver head. Either way use the CAB-7/16SAE washer (order separately) against the wood newel. See ordering information on page 64.



Hidden Push Locking Fitting Shown in a minimum 3.5" x 3.5" flat sided wood newel with beveled washer and CAB-7/16SAE washer.

Stainless Steel Beveled Washer ^ - for angled applications with flat-sided metal & wood posts

Part Nbr	For pitch of
CAB-BW32-6	30°-33°
CAB-BW35-6	34°-36°
CAB-BW38-6	37°-39°

^Order separately



Hidden Push Locking Fitting Shown in flat sided stainless steel newel with beveled washer.

step five

Order Tools and Accessories

Cable Cutters	Cable Gripping Pliers	Cut-off Tool	Cable Tension Gauge	Pre-Tensioner & Pliers	Cable Release	Grommet Tool Set
						
CAB-CUTTER7	CAB-PLIERS	CAB-CUTWHEEL	CAB-PT-CR	CAB-PT-250	CAB-PL-KEY	CAB-GTS
For light duty use to cut 1/8" diameter cables CAB-CUTTER9 To cut cable up to 1/4" diameter CAB-CUTTER12 For heavy duty use and to cut cables up to 3/8" diameter	Locking pliers with machined jaws to grip the cable as you tension it and prevents the cable from turning and being damaged. You must hold the cable when tensioning.	Used to cut cable flush with the end of Hidden Pull Locking Fittings and to cut excess threads off stud-type tensioners. Comes with mandrel & 2 cut-off wheels.	Check the tension on your cables with this easy to use gauge for cables up to 1/4" diameter.	The Pre-tensioner is useful when installing longer runs of cable. It allows the cable to be tensioned through the last intermediate newel, making it easier to connect to the end newel. Locking Pliers required-order by cable size. CAB-VGJ-PT4C for 1/8" cable CAB-VGJ-PT6C for 3/16" cable	Releases cable from Hidden Pull Locking & Push Locking type fittings prior to cable tensioning. 1/8" cable only.	To properly install grommets use these tools. Place grommet on tool, align grommet over hole and tap lightly with hammer.

Drilling Template



Drill straight holes in wood newels with this steel drilling template. Clamp the guide to the newel and drill pilot holes then switch sides and drill again. Comes with 6" long drill bit to complete your cable through-holes. Made to a specific cable diameter & spacing.

CAB-DRILL TEMP

These accessories are a must for every job!



see page 71

Swaging Tools Purchase or Rent

Tools for swaging may be rented or purchased. For infrequent or one-time jobs the rental option is ideal. The rental kit includes Swager CAB-610, Air Pump CAB-PUMPAIR, Tool Box CAB-TB1, Cable Cutters CAB-CUTTER9, Cable Gripping Plier CAB-PLIERS.

Contact us for all available Swaging equipment.



Adhesives



Q-glue Stainless Steel Adhesive -
for gluing stainless steel to stainless steel

Type	Use	Part Number	Size
Glue	All	19.1331.000.00	1.69 fluid oz

Average connections per bottle:
5/8"= 150, 1.5"= 60, 2"= 50



Includes 5 oz A-7 epoxy, A-24 nozzle & piston, will install 30-40 balusters both ends. For use with standard caulking gun (gun not included).

Fast Setting Epoxy Kit -
for gluing metal to wood or wood to wood.

Type	Use	Part Number	Size
Epoxy	All	A-501-K	5 oz

Average connections per bottle: 30-40 balusters both ends



Extra Nozzle - mixing nozzle for A-7 cartridge

Component	Use	Part Number	Size
	All	A-24	for A-7



Q-seal Glass Silicone -
color black with nozzle included

Type	Use	Part Number	Size
Silicone	All	19.1340.310.00	10.5 fl. oz

Stainless Steel Care & Maintenance Products

Working with Oak Pointe products means that you have the best quality stainless steel. Although Stainless Steel is very strong, even the best quality stainless steel is not 100% corrosion resistant. For this reason we recommend that you clean all stainless steel products with Q-Ultra-Clean immediately after delivery and then repeat the treatment after installation. This will ensure that any harmful residue has been removed. Use Q-Ultra-Clean on a regular basis to maintain the original beauty of your stainless steel components. The frequency will depend upon your environment, including interior or exterior use.

NOTE:

- Follow all safety directions shown on the product labels.
- Never use steel wool or similar products for cleaning or polishing Stainless Steel. Steel wool will scratch the steel and these scratches will form the basis for rust.
- Avoid using cleaning or polishing sponges, polishing powder, or other similar products. These can contain abrasives that will scratch the steel.
- For best results, cleaning and polishing should always be done in the direction in which the steel is brushed.



Q-ultra-clean - removes dirt and surface corrosion and reinforces the stainless steel's protective passive layer

Type	Use	Part Number	Size
Cleaner	All	19.0610.000.00	16.9 fl. oz



Q-cleaner
cosmetic cleaner that removes stains, fingerprints and enhances the shine

Type	Use	Part Number	Size
Cleaner	All	19.0601.000.00	10.1 fl. oz



Scotch®-Brite - polishing pads to remove scratches. Always polish in the direction of the grain.

Type	Use	Part Number	Size
Cleaner	All	19.0640.000.00	6" X 9"

Tools for Stainless Steel and Glass Installation



Metric Hexagon Screwdriver Set

Type	Use	Part Number	Size
Tool	All	19.0701.000.00	2, 2.5, 3, 4, 5, 6, 8 millimeter heads
Tool	All	19.0701.014.00	14 millimeter head



Glass Installation Tool
for spiders & brackets with round plates

Type	Part Number	Use
Tool	19.0702.030.00	63/64" to 1-1/10" dia.
Tool	19.0702.050.00	1.75" to 2" diameter




Safety Wedge Kit Installation Tool -
Install/remove wedges and install back gasket

Type	Part Number
Tool	19.6920.000.00




Screws



Wood Screw-Phillips Head

Attach brackets & rosettes to wall. Use anchors where required (not supplied).


Type	Use	Part Number	Hex Head	Dimensions				Drill Size	Tap Size
				d	D	H	L		
316	Exterior	QS-6	-	-	-	-	1"	-	-



Combination Of Lag & Machine Screw Fastener

Attach brackets to wall. Use anchors where required (not supplied).


Type	Use	Part Number	Hex Head	Dimensions				Drill Size	Tap Size
				d	D	H	L		
316	Exterior	QS-86	4mm	M8 x 1-1/4"	-	-	3-1/2"	-	-



Hexagon Socket Countersunk Head Cap Screw

Attach wall & newel brackets to SS rail. For wood rail see QS-6.

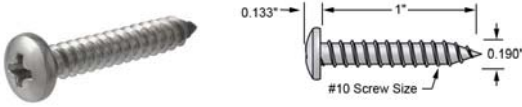
Type	Use	Part Number	Hex Head	Dimensions				Drill Size	Tap Size
				d	D	H	L		
316	Exterior	QS-113	3mm	3/16"	3/8"	-	3/4"	#20	3/16-24 3A
Attach stainless steel parts to SS parts. Attach to wood also use insert INS-120.*									
316	Exterior	QS-120	5mm	5/16"	5/8"	-	1"	J	5/16-18 3A
Attach stainless steel parts to SS parts. Attach to wood also use insert INS-120.*									
316	Exterior	QS-122	5mm	5/16"	5/8"	-	1-1/2"	J	5/16-18 3A



Socket Flat Head Cap Screw

Use with QS-242 & QS-243.


Type	Use	Part Number	Hex Head	Dimensions				Drill Size	Tap Size
				d	D	H	L		
316	Exterior	QS-22	-	M8	-	-	1-9/16"	-	-
316	Exterior	QS-533	6mm	M10	13/16"	-	1-3/16"	-	-



Wood Screw-Phillips Pan Head

Attach wall & newel brackets to wood rail.


Type	Use	Part Number	Hex Head	Dimensions				Drill Size	Tap Size
				d	D	H	L		
316	Exterior	WS-111	-	-	-	-	1"	-	-



Hexagon Socket Countersunk Head Cap Screw

Replacement screws for glass clamp models 20, 21, 22, 25, 28 & 42.


Type	Use	Part Number	Hex Head	Dimensions				Drill Size	Tap Size
				d	D	H	L		
316	Exterior	QS-41	4mm	M6	1/2"	-	5/8"	-	-
Replacement screws for glass clamp models 24.									
316	Exterior	QS-42	4mm	M6	1/2"	-	3/4"	-	-



Socket Button Head Cap Screw

Attach wall & newel brackets to SS rail. For wood rail see WS-111 below.

Type	Use	Part Number	Hex Head	Dimensions				Drill Size	Tap Size
				d	D	H	L		
316	Exterior	QS-111	3mm	3/16"	3/8"	-	5/8"	#20	3/16-24 3A



Socket Head Cap Screw

Type 18-8. Attach stainless steel parts to SS parts.

Type	Use	Part Number	Hex Head	Dimensions				Drill Size	Tap Size
				d	D	H	L		
304	Interior	QS-123	6mm	1/4"	1/2"	1/4"	3/4"	7/32"	1/4-20 3A
Attach stainless steel parts to SS parts. Attach to wood also use insert INS-120.*									
316	Exterior	QS-127	6mm	5/16"	15/32"	5/16"	3/4"	J	5/16-18 3A
Type 18-8. Attach stainless steel parts to SS parts. Attach to wood also use insert INS-171.*									
316	Exterior	QS-171	6mm	1/4"	1/2"	1/4"	2-1/4"	7/32"	1/4-20 3A
For use with QS-55.									
316	Exterior	QS-27	-	M8	-	-	3/4"	-	-




Drywall Anchors

Use with MOD 0504 & 4505

Use	Part Number	Diameter	Length
Exterior	QS-55	0.4394"	1.06"

*Wood Insert Chart (INS)




Hex Drive Threaded Wood Insert

Use with QS-120, QS-122, QS-127

Part Number	Hex Head Size	Dimensions			Drill Size
		d2	d3	L	
INS-120	8	0.552"	0.453"	0.591"	15/32" to 1/2"
Use with QS-171					
INS-171	6	0.472"	0.374"	0.472"	3/8" to 25/64"

Fasteners



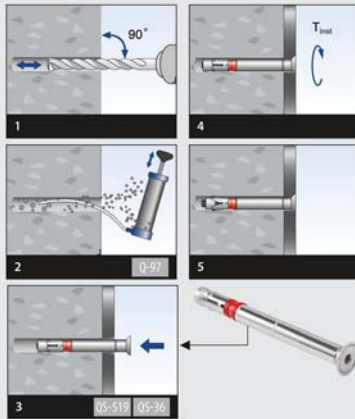
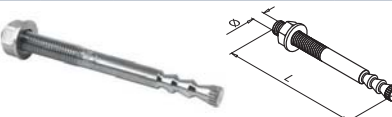
Concrete Fastener

Install vertically or horizontally, minimum 2.89" from edge to center of bore.

Type	Use	Part Number	Φ	Length	Drill Size
Steel zinc plated	Interior	QS-36	M8	4-59/64"	1/2"

Install vertically or horizontally, minimum 3.48" from edge to center of bore.

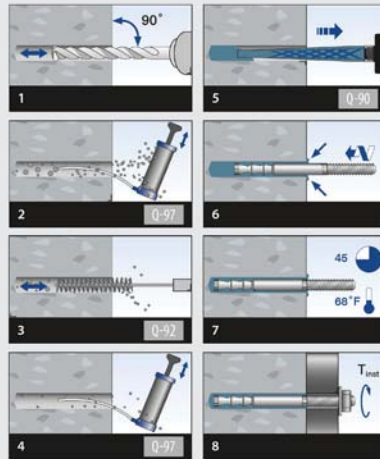
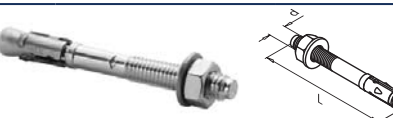
316	Exterior	QS-519	M8	4-59/64"	1/2"
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Concrete Fastener

Install using Q-90 adhesive.

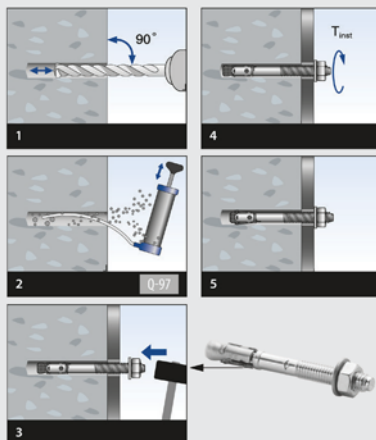
Type	Use	Part Number	Φ	Length	Drill Size
M10 Hex Heads					
Steel zinc plated	Interior	QS-229	M10	3-11/32"	1/2"
M12 Hex Heads					
Steel zinc plated	Interior	QS-232	M12	4-23/32"	1/2"
316	Exterior	QS-233	M12	4-23/32"	1/2"
Steel zinc plated	Interior	QS-238	M12	6-11/16"	1/2"
316	Exterior	QS-239	M12	6-11/16"	1/2"
316	Exterior	QS-549	M12	5-5/16"	1/2"

Concrete Fastener

Install using Q-90 adhesive.

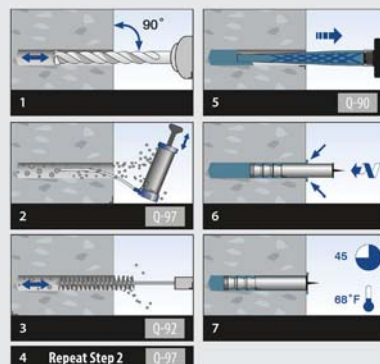
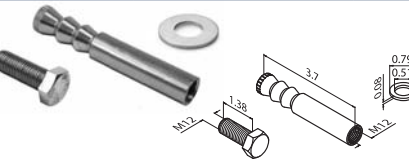
Type	Use	Part Number	d	Length	Drill Size
Steel zinc plated	Interior	QS-246	M8	2-61/64"	5/16"
316	Exterior	QS-247	M8	2-61/64"	5/16"




Concrete Fastener - With threaded receiver

Install using Q-90 adhesive.

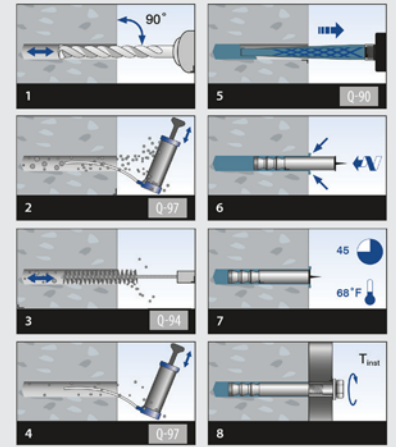
Type	Use	Part Number	d	Length	Drill Size
316	Exterior	QS-243	M10	3-5/16"	9/16"

Concrete Fastener - With threaded receiver

Includes bolt & washer- install using Q-90 adhesive.

Type	Use	Part Number	Φ	Length	Drill Size
316	Exterior	QS-559	M12	3.7"	23/32"




Fasteners Accessories




Injector mortar- use with standard caulk gun

Part Number	Size
Q-90	6.4 fl. Oz.



Air pump for cleaning drilled holes

Part Number	Size
Q-97	6.4 fl. Oz.



Brush for cleaning drilled holes

Part Number	Size
Q-92	15/32" holes
Q-94	23/32" holes

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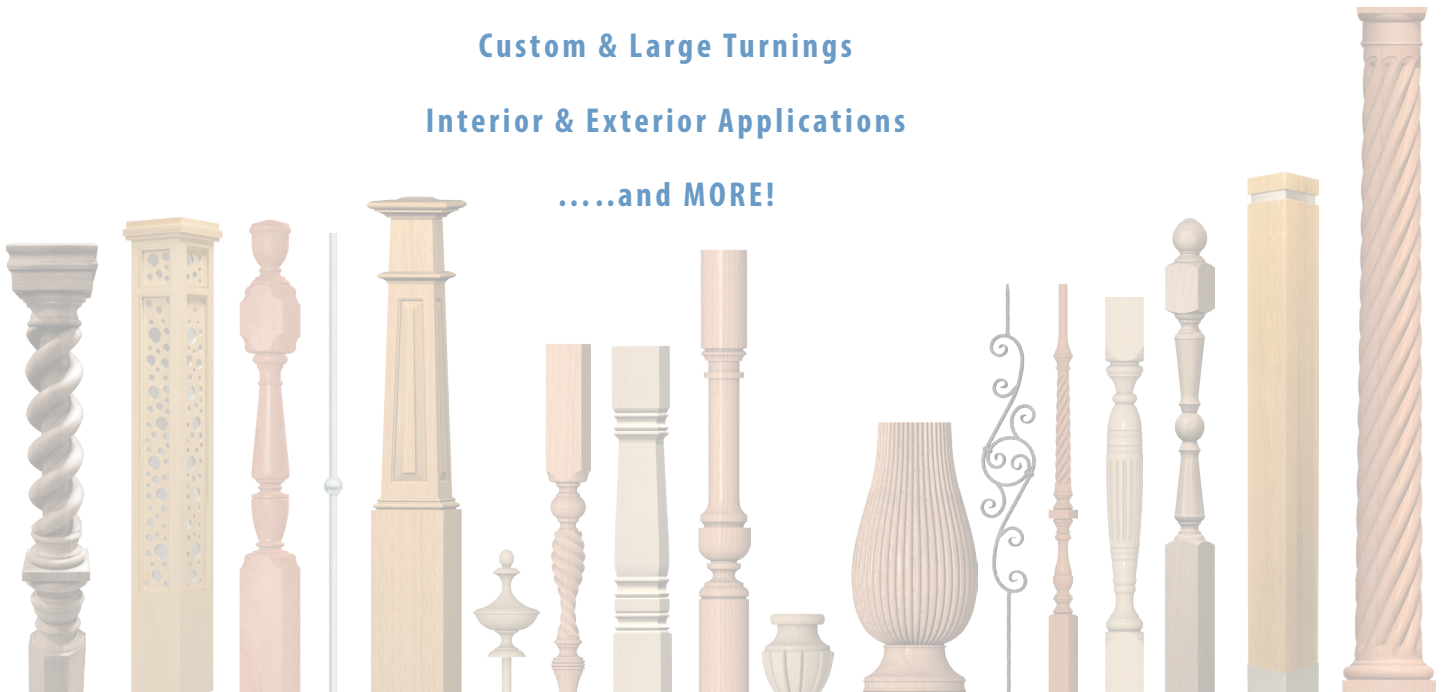
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