



OAK POINTE

# MODERN METAL COLLECTION

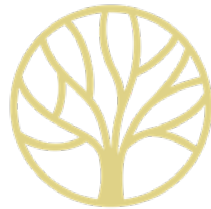
STAINLESS STEEL · CABLE · INFILLS



WHERE TRADITION AND INNOVATION CREATE EXCELLENCE

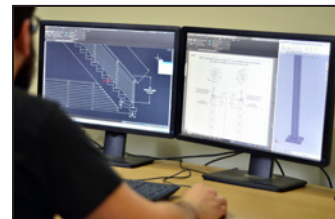
Custom components are an integral part of our business. Call for pricing on your designs for interior and exterior use.

# MODERN METAL MADE EASY...



## OAK POINTE

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 section 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. Use our handy "Checklist" (scan QR Code).



**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!

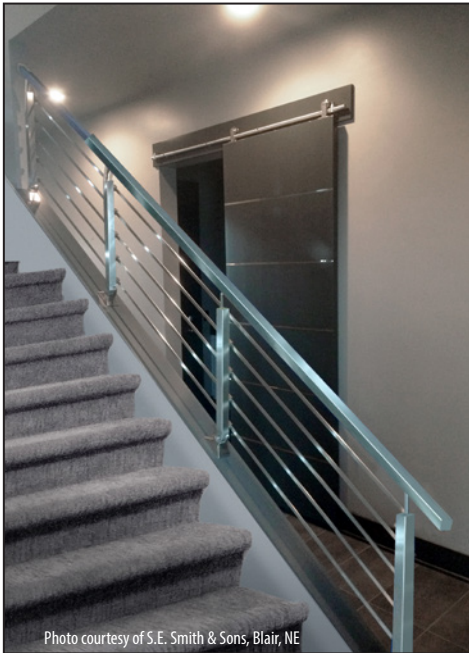


Photo courtesy of S.E. Smith & Sons, Blair, NE

**Products included in installation above:**

- Square Series stainless steel newels, handrail and flat bar infill (see pages 9-16)



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

**Products included in installation above:**

- Cable infill (see pages 17-29)



**Products included in installation above:**

- Cable infill (see pages 17-29)



**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 is 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.

**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.



For more information please see page 29.

Maintenance	Application	304	316
Low	Indoor structures (no wet spaces).	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Moderate	Indoor structures without noticeable chlorine and sulphur dioxide load (e.g. semi-chemical factories).	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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>		<input checked="" type="checkbox"/>
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>		<input checked="" type="checkbox"/>



### 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.

### 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.

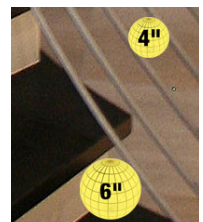
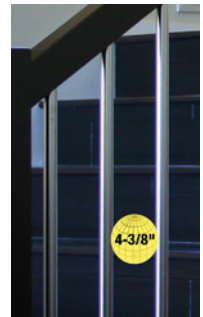
### Installation & Terminology

**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.

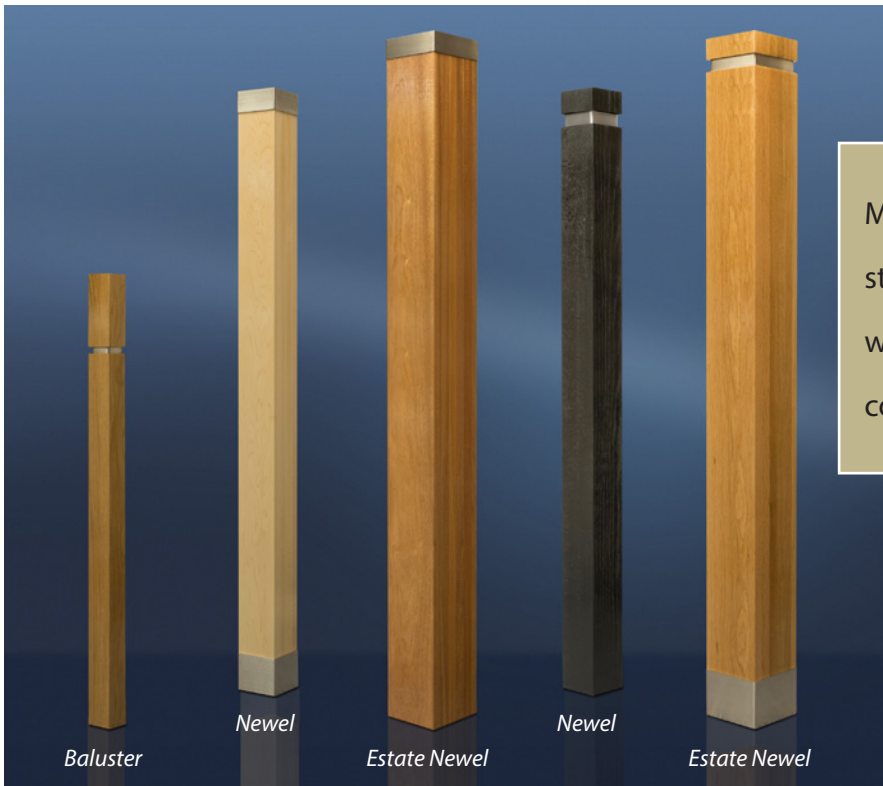
**Infill** is the term referring to the type of product that will fill the space between newels, treads, floor, deck, bottom rail, etc. and the bottom of the handrail. In this catalog Oak Pointe offers flat bar, round bar, glass clamps & cable infill.

**Newel spacing:** When using infill options in this catalog newels should be spaced no more than every 48" 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.**



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 page 78 in our catalog Edition 4.0 or [StairPartsandMore.com](http://StairPartsandMore.com) for more details.



**Contemporary Box Newels**

Oak Pointe's Contemporary Box Newels come in four 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 pages 58-61 in our catalog Edition 4.0 or [StairPartsandMore.com](http://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 6 elegant colors shown below are ones we chose to feature but for hundreds of other choices go to [www.ralcolor.com](http://www.ralcolor.com).



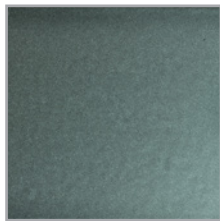
Almond



Solar Black (satin)



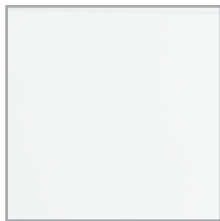
Burnt Penny



Gun Metal Metallic



White Aluminum



White



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

These product categories available in powder coat finishes <sup>1</sup>	Interior	Exterior
<b>Iron Balusters for interior use</b>		
Iron Collection	✓	
Stainless Steel Square Series (1.57")	✓	✓
Stainless Steel Square Series (2")	✓	✓
<b>Infills (for use with stainless steel newels)</b>		
Round Bars & Accessories	✓	✓
Flat Bars & Accessories	✓	✓
Glass Infill Accessories	✓	✓

<sup>1</sup> Not all parts are conducive to being powder coated.

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



Balto Hollow Bar Baluster shown in White finish

L43944



Detail of Venetian Series L65044 Round Hollow Bar Baluster shown in White finish

# STAINLESS STEEL BALUSTERS ...

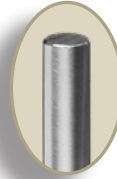
## Wood stair systems with vertical stainless steel Balusters and Newels!

Order A7P Epoxy for use with wood components. See page 29.

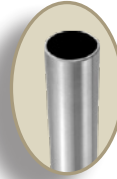


### Round Balusters

Stainless Steel (304)



Solid Bar detail  
1/2" diameter



Hollow Tube detail  
1/2" diameter  
0.06" thickness



Hollow Tube detail  
5/8" diameter  
0.04" thickness

#### 44" Solid Bar Baluster 1/2" dia.

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

#### 44" Hollow Tube Baluster 1/2" dia.

316	Exterior	1644-050-44-316
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#### 44" Hollow Tube Baluster 5/8" dia.

316	Exterior	1644-062-44-316
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### Round Newel

Stainless Steel (304)



Aluminum Round Low Profile Newel Mounting Kit. Available in SS finish.

RC-101-KIT-304

Order separately.

#### 48" Hollow Tube Newel - round hollow tube 1 3/16" dia.

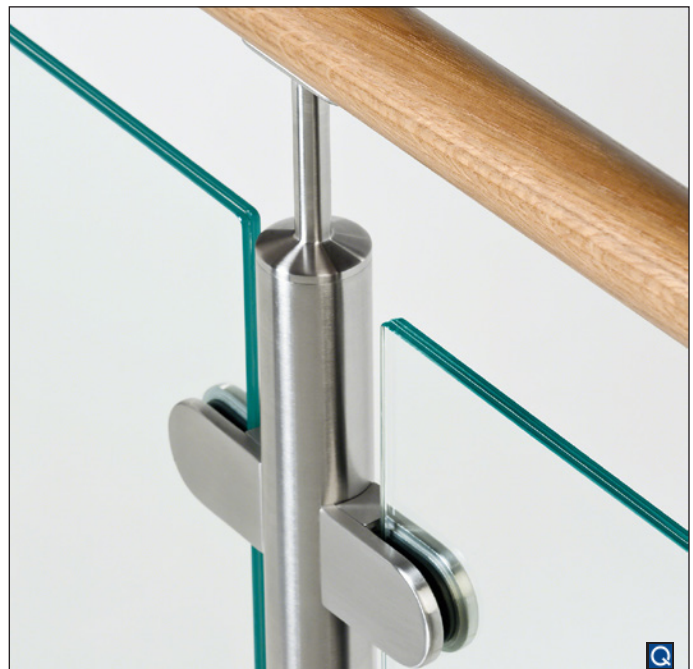
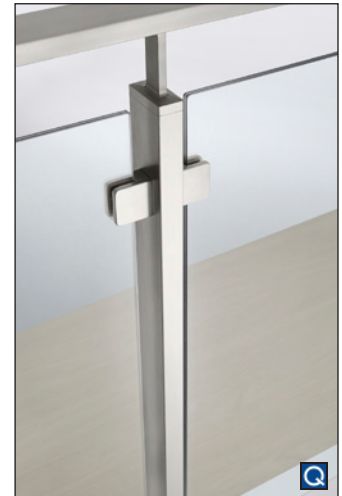
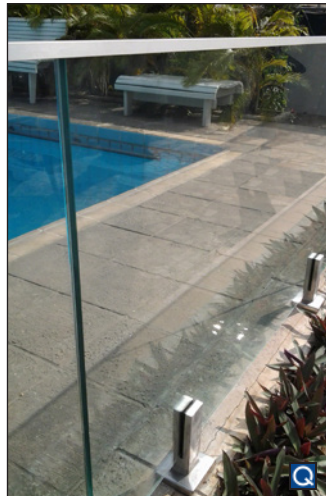
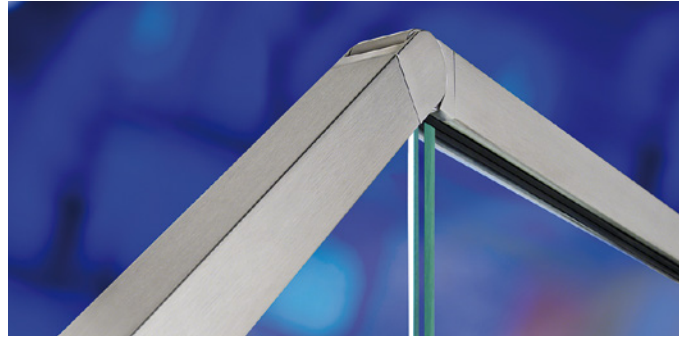
Type	Use	Part Number
304	Interior	NEWL-LRD48

# INTERIOR OR EXTERIOR...

## Modern Metal Options for interior or exterior use

In addition to the parts shown on the following pages, if you want parts for the following systems, please contact us to check availability.

- Cap rails for glass- rectangular and round
- Base shoe for glass surface and fascia mounted
- Base flanges
- Rectangular parts
- Fascia and glass adapters
- Round parts (1.5"D and 1.9"D)







Square Series offers a clean contemporary lineal appearance. **240 SATIN MESH FINISH**

## 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

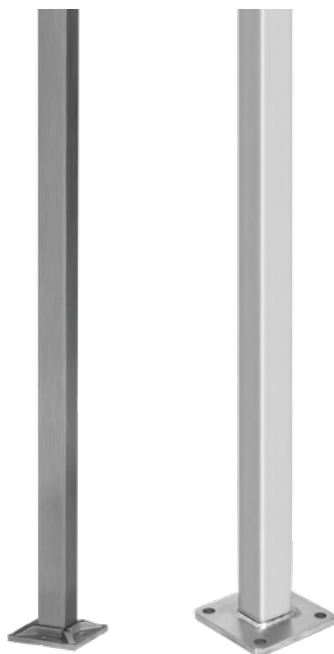


**The Oak Pointe Advantage.**

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.



**SQUARE NEWELS**



**Square Newels.**

Exterior 316 Stainless Steel

Part Number	Description
40SQ-4913-316*	1.57" x 1.57" x 38"L (40 x 40mm x 965mm) 0.08" thick wall
50SQ-NEWEL-X-316	2" x 2" (50 x 50mm). Specify Length. 0.11" thick wall

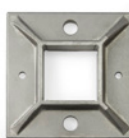
\*Not recommended for cable system end posts. Okay for intermediate posts.



**Canopy.**

Exterior 316 Stainless Steel

Part Number	Description
40SQ-4511-316	4-1/8" Sq x 13/16"H. For 1.57" Square newels.
50SQ-4511-316	4-1/8" Sq x 13/16"H. For 2" Square newels.



**Newel Base Flange - for Welding (level mount).**

Exterior 316 Stainless Steel

Part Number	Description
40SQ-4940-316	3 1/4" Square. For 1.57" Square newels.

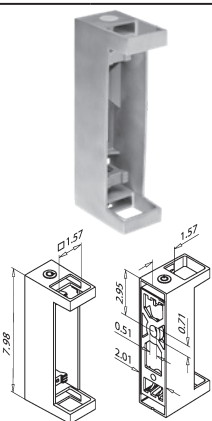


**Newel Base Flange - for Welding (level or angle mount).**

Exterior 316 Stainless Steel

Part Number	Description
40SQ-FLANGE-316*	3 1/4" Square. For 1.57" Square newels.
50SQ-FLANGE-316	3 1/4" Square. For 2" Square newels.

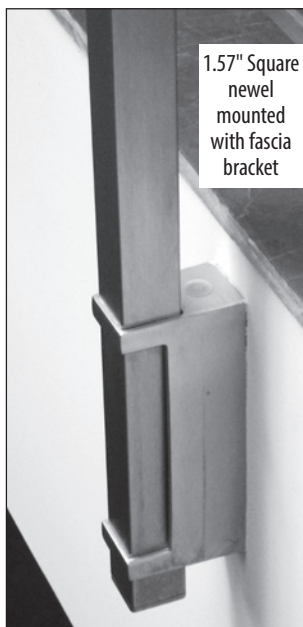
\*SOLD ONLY for angle mount in this size.



**Newel Fascia Mount Bracket for use with 1.57" square tubes.**

Part Number	Description
40SQ-4558-316*	2.01"W x 7.98"L x 3.35" Projection.

\* Fasteners by others



1.57" Square newel mounted with fascia bracket

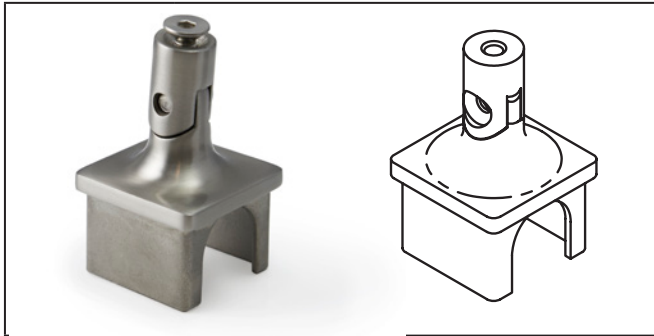


**Newel Fascia Mount Bracket for use with 2" square tubes.**

Exterior 316 Stainless Steel

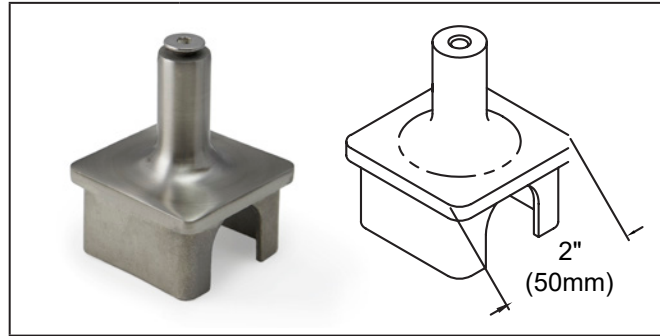
Part Number	Description
50SQ-FASCIA-316*	Back plate: 3-1/2"W x 6-1/2"H Projection: 3-1/2"

\* Fasteners by others



**Universal Pivoting Newel Top Mount Bracket.**  
Exterior 316 Stainless Steel

Part Number	Description
40SQ-BRAC-PIV-316	Projection with saddle: 1¼". For 1.57" Square newels.
50SQ-BRAC-PIV-316	Projection with saddle: 1¼". For 2" Square newels.
<i>Order Saddle: 1 required</i>	



**Universal Fixed Newel Top Mount Bracket.**  
Exterior 316 Stainless Steel

Part Number	Description
–	–
50SQ-BRAC-FIX-316	Projection with saddle: 1¼". For 2" Square newels.
<i>Order Saddle: 1 required</i>	

**FOR FLAT BOTTOM HANDRAILS**



**180° Saddle** – for flat bottom handrails.  
Exterior 316 Stainless Steel

Part Number	Description
SADDLE-180F-316	All Newel Top Mount Brackets
<i>Order Screws (2 required)</i>	
QS-113	For Stainless Steel
QS-6	For wood



**90° Saddle** – for flat bottom handrails.  
Exterior 316 Stainless Steel

Part Number	Description
SADDLE-90F-316	All Newel Top Mount Brackets
<i>Order Screws (2 required)</i>	
QS-113	For Stainless Steel
QS-6	For wood



**135° Saddle** – for flat bottom handrails.  
Exterior 316 Stainless Steel

Part Number	Description
SADDLE-135F-316	All Newel Top Mount Brackets
<i>Order Screws (2 required)</i>	
QS-113	For Stainless Steel
QS-6	For wood

**FOR ROUND HANDRAILS**



**180° Saddle** – for round handrails up to 2"D.  
Exterior 316 Stainless Steel

Part Number	Description
SADDLE-180R-316	All Newel Top Mount Brackets
<i>Order Screws (2 required)</i>	
QS-113	For Stainless Steel
QS-6	For wood



**90° Saddle** – for round handrails up to 2"D.  
Exterior 316 Stainless Steel

Part Number	Description
SADDLE-90R-316	All Newel Top Mount Brackets
<i>Order Screws (2 required)</i>	
QS-113	For Stainless Steel
QS-6	For wood



**135° Saddle** – for round handrails up to 2"D.  
Exterior 316 Stainless Steel

Part Number	Description
SADDLE-135R-316	All Newel top-mount brackets
<i>Order Screws (2 required)</i>	
QS-113	For Stainless Steel
QS-6	For wood



# Step Two...

## Choose your handrail

a. Wood Handrails - see all of our wood handrails on pages 237-239 in our catalog Edition 4.0 (for exterior use request exterior quote)

b. Stainless Steel Handrails - square



6109



6041



6002



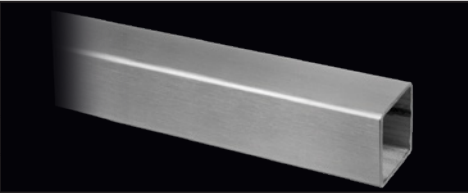
9200



SS Handrail

### Handrails & Handrail Components

Square Handrail/Tubing, Exterior 316 Stainless Steel	
Part Number	Description
40SQ-4900-316	1.57" x 1.57" x 196"L (40 x 40mm) 0.08" thick wall
40SQ-4925-316	1.57" x 1.57" x 98"L (40 x 40mm) 0.08" thick wall
50SQ-RAIL-118-316	2" x 2" x 118"L (50 x 50mm) 0.11" thick wall




**Connector – adjustable for 1.57" Square rail**

Part Number	Description
40SQ-4312-316	Pivots 0° to 70°



**Connector – 90°**  
Exterior 316 Stainless Steel

Part Number	Description
40SQ-4301-316	For 1.57" Square newels.
50SQ-4301-316	For 2" Square newels.



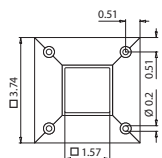
**Connector – Straight 3-way**  
Exterior 316 Stainless Steel

Part Number	Description
40SQ-4303-316	For 1.57" Square newels




**Connector – 3-way, 90°**  
Exterior 316 Stainless Steel

Part Number	Description
40SQ-4304-316	For 1.57" Square newels



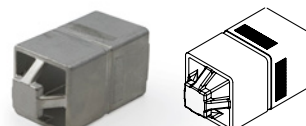
**Wall Rosette – for 1.57" Square rail.**  
Exterior 316 Stainless Steel

Part Number	Description
40SQ-4505-316	3.74" Square
Order Screws (4 required)	
QS-6	For wood



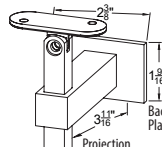
**End Cap.** Exterior 316 Stainless Steel

Part Number	Description
40SQ-4732-316	For 1.57" Square newels
50SQ-4732-316	For 2" Square newels



**Connector – Straight (concealed).**  
Exterior 316 Stainless Steel

Part Number	Description
40SQ-5792-316	For 1.57" Square newels
50SQ-5792-316	For 2" Square newels




**Wall Rail Bracket – Pivoting & height adjustable for flat bottom rail.**  
Exterior 316 Stainless Steel

Part Number	Description
40SQ-4145F-316	3-1/4" setback
Order Screws (2 for handrail +1 for wall)	
QS-113	For SS handrail
QS-6	For wood handrail
QS-86	For wall attachment



**Wall Rail Bracket – For flat bottom handrails.** Exterior 316 Stainless Steel.

Part Number	Description
14.0111.000.12	2.91" Setback
Order Screws (2 for handrail +1 for wall)	
QS-113	For SS handrail
QS-6	For wood handrail
QS-86	For wall attachment



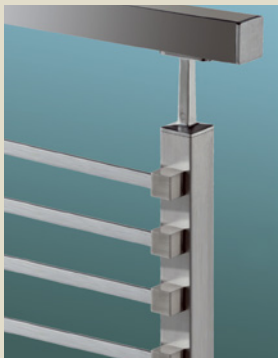
**Wall Rail Bracket – For round handrail 1.5" diameter (up to 2" for wood).** Exterior 316 Stainless Steel

Part Number	Description
14.0111.038.12	2.91" Setback
Order Screws (2 for handrail +1 for wall)	
QS-111	For SS handrail
WS-111	For wood handrail
QS-86	For wall attachment



# Step Three...

Choose your infill  
using Stainless Steel or wood Square Newels



Flat Bar Infills  
see page 12



Round Bar Infills  
see pages 13-14



Glass Infill Components  
see pages 15-16

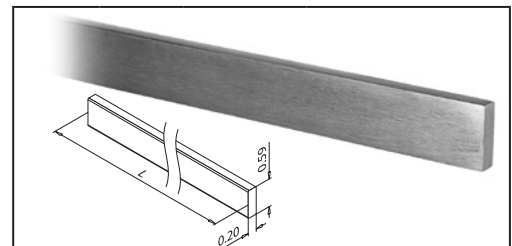


Cable Infills  
see pages 17-29

## 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	0.20" T x 0.59" w x 98" L
316	Exterior	-	(5mm x 15mm)
304*	Interior	13.4900.015.12	0.20" T x 0.59" w x 196" L
316	Exterior	14.4900.015.12	(5mm x 15mm)

Flat bar can be ordered cut to length.  
\*304 subject to prior sale



**Left Cross Bar Holder** – for flat bar and square newels. Exterior 316 Stainless Steel

Part Number	Description
40SQ-4822-316	.98" x .98" x .95" Projection. 2 piece with set screws.
Order Screws (1 required)	
QS-120	For Stainless Steel and wood
INS-120	In addition must order for wood



**Center Cross Bar Holder** – for flat bar and square newels. Exterior 316 Stainless Steel

Part Number	Description
40SQ-4821-316	.98" x .98" x .95" Projection. 2 piece with set screws.
Order Screws (1 required)	
QS-120	For Stainless Steel and wood
INS-120	In addition must order for wood



**Right Cross Bar Holder** – for flat bar and square newels. Exterior 316 Stainless Steel

Part Number	Description
40SQ-4823-316	.98" x .98" x .95" Projection. 2 piece with set screws.
Order Screws (1 required)	
QS-120	For Stainless Steel and wood
INS-120	In addition must order for wood



## 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 A7P Epoxy with wood newels, see page 29.






	<b>Solid Round Bar.</b> Exterior 316 Stainless Steel	
	<b>Part Number</b>	<b>Description</b>
	SOLID BAR-050-59-316	0.5" dia. (12mm) x 59"L
	SOLID BAR-050-118-316	0.5" dia. (12mm) x 118"L
	<b>Round Tube (Hollow).</b> Wall Thickness: 0.06" (12mm) & 0.04" (16mm). Exterior 316 Stainless Steel	
	TUBE-050-59-316	0.5" dia. (12mm) x 59"L
	TUBE-050-118-316	0.5" dia. (12mm) x 118"L
	TUBE-0625-59-316	0.625" dia. (16mm) x 59"L
	TUBE-0625-118-316	0.625" dia. (16mm) x 118"L
 Choose Satin Black (SAT) or Ash Grey (AG)	<b>Round Tube (Hollow).</b> Interior. 0.04" thick wall.	
	TUBE-050-48	0.5" dia. x 48"L
	TUBE-050-96	0.5" dia. X 96"L
	TUBE-0625-48	0.625" dia. x 48"L
	TUBE-0625-96	0.625" dia. X 96"L



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.

	
<b>Tube Cutter</b> – For hollow metal tubes	
<b>Part Number</b>	<b>Description</b>
SS-TUBE CUTTER	1/4" to 2-5/8" Hollow

	
<b>Wheel</b> – For tube cutter	
<b>Part Number</b>	<b>Description</b>
SS-TUBE CUTTING WHEEL	Extra wheel



Newels: 4000  
Rail: 6002  
Baluster: 1544-050-44-316






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



**FOR 1/2" ROUND BAR INFILL**

							
<p><b>Left Crossbar Holder.</b> ⓘ For 0.5" dia. bars &amp; tubes, and flat newels. 316 Exterior Stainless Steel</p>		<p><b>Center Crossbar Holder.</b> ⓘ For 0.5" dia. bars &amp; tubes, and flat newels. 316 Exterior Stainless Steel</p>		<p><b>Right Crossbar Holder.</b> ⓘ For 0.5" dia. bars &amp; tubes, and flat newels. 316 Exterior Stainless Steel</p>		<p><b>Connector.</b> ⓘ Adjustable for 0.5" dia. bars &amp; tubes. 316 Exterior Stainless Steel</p>	
Part Number	Description	Part Number	Description	Part Number	Description	Part Number	Description
14.0832.000.12	0.87" dia. x 1.18" proj. 2 piece with set screws.	14.0831.000.12	0.87" dia. x 1.18" proj. 2 piece with set screws.	14.0833.000.12	0.87" dia x 1.18"proj. 2 piece with set screws.	14.0302.012.12	-90°, +90°
Order Screws (1 required)		Order Screws (1 required)		Order Screws (1 required)			
QS-113	For Stainless Steel	QS-113	For Stainless Steel	QS-113	For Stainless Steel		
QS-6	For wood	QS-6	For wood	QS-6	For wood		

**FOR 5/8" ROUND BAR INFILL**

					
<p><b>Center Crossbar Holder.</b> ⓘ For 0.625" dia. bars &amp; tubes, and flat newels. 316 Exterior Stainless Steel</p>		<p><b>End Cap.</b> ⓘ Curve top for 0.625" diameter tubes. 316 Exterior Stainless Steel</p>		<p><b>Connector.</b> ⓘ Adjustable for 0.625" diameter tubes. 316 Exterior Stainless Steel</p>	
Part Number	Description	Part Number	Description	Part Number	Description
14.0840.000.12	0.98" dia. x 1.46" projection. 2 piece with set screws.	14.0729.016.12	5/32" projection	14.0302.016.12	-90°, +90°
Order Screws (1 required)					
QS-120	For Stainless Steel and wood				
INS-120	In addition must order for wood				



## Glass Infill Components

(note: glass is not sold by Oak Pointe)



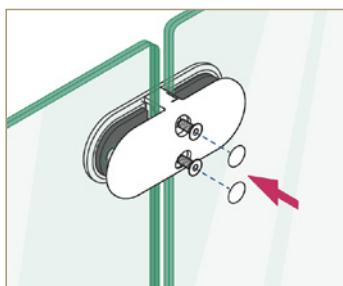
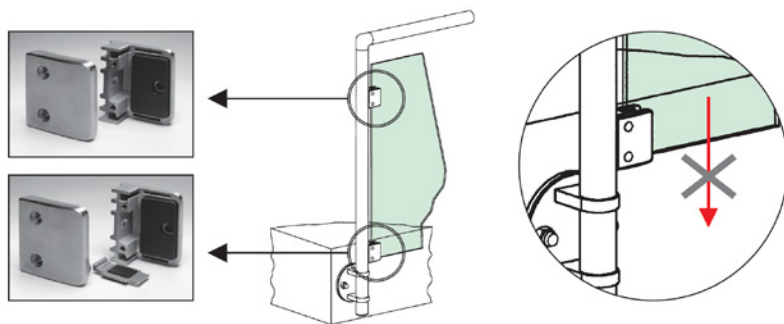
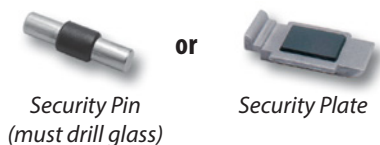
### Glass Clamps

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 Model 21.

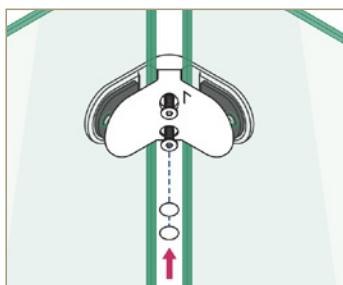
These products have been designed and developed to meet industry norms and safety code requirements. Before installing always consult a licensed engineer to determine if your railing design meets the local building codes.

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

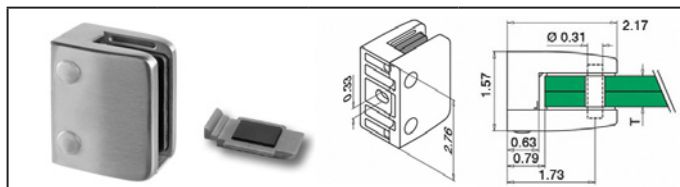
#### Fascia Mount? Safety first.



Straight glass clamp application see page 16.



90° glass clamp application see page 16.



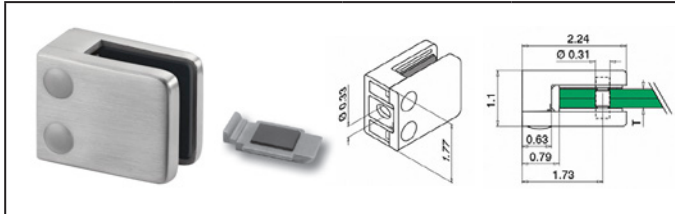
#### Model 24F - Glass Clamp.

For square newels 1.57" thick x 2.76" high x 2.17" long. Security plate included. 316 Exterior Stainless Steel

Part Number	Glass Type	Glass Thickness	Notes
14.2400.000.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.030.00 Security Pin available 1 3/8" L
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)	
<b>Order Screws (1 required per clamp)</b>			
QS-127	For Stainless Steel and wood		
INS-120	In addition must order for wood		

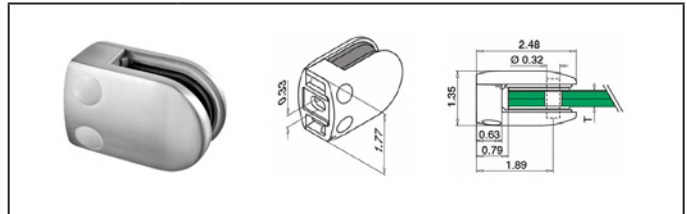


## Glass Clamps



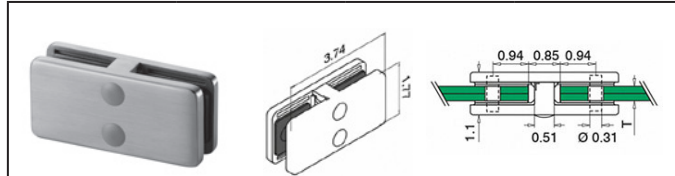
**Model 42F - Glass Clamp.** For square newels 1.1" thick x 1.77" high x 2.24" long. Security plate included. Q

Part Number	Glass Type	Glass Thickness	Notes
14.4200.000.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.022.00 Security Pin available 7/8"L
19.5003.006.00	Tempered Monolithic	1/4" (6mm)	need 2/clamp (42F) & 4/clamp (42S & 42-90)
19.5003.007.00	Laminated	1/4 (6.76mm)	
19.5003.008.00	Tempered Monolithic	5/16" (8mm)	
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)	
<b>Order Screws (1 required per clamp)</b>			
QS-127	For Stainless Steel and wood		
INS-120	In addition must order for wood		



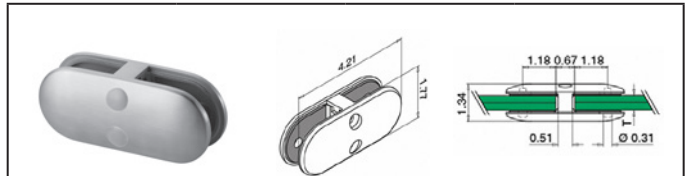
**Model 28F - Glass Clamp.** For square newels 1.35" thick x 1.77" high x 2.48" long. Q

Part Number	Glass Type	Glass Thickness	Notes
14.2800.000.12	Clamp only- order 2 pieces of rubber inlays below that match your glass size		19.5015.022.00 Security Pin available 7/8"L
19.5001.006.00	Tempered Monolithic	1/4" (6mm)	need 2/clamp (28F) & 4/clamp (28S & 28-90)
19.5001.008.00	Tempered Monolithic	5/16" (8mm)	
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)	
<b>Order Screws (1 required per clamp)</b>			
QS-127	For Stainless Steel and wood		
INS-120	In addition must order for wood		



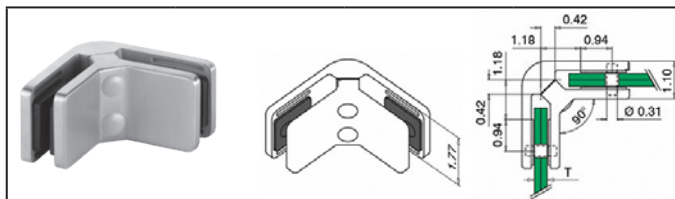
**Model 42S - Glass Clamp.** Straight (glass to glass) 1.1" thick 1.77" high x 3.74" long. Q

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



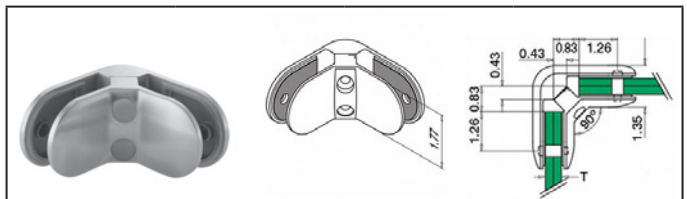
**Model 28S - Glass Clamp.** Straight (glass to glass) 1.35" thick x 1.77" high x 4.21" long. Q

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



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

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



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

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

# Step Four...

Order required screws and accessories

These accessories are a must for every job, see page 29.







### Cable Made Easy – Let Oak Pointe design your cable system. We make it easy. See page 2.

- ▶ 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 compacted 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 2" square newels (not the 1.57" square 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. 1.57" square newels may be used as intermediate posts with 2" square end newels.

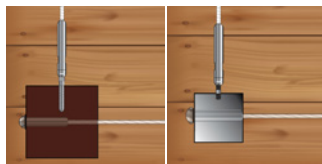
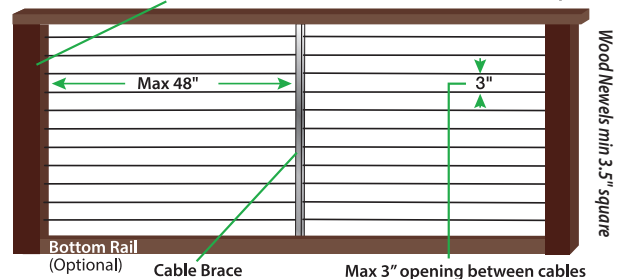
**Cable braces** - Cable will stretch and as a result it needs to be supported every 48". Intermediate newels will act as support and will be structural to the rail system but cable braces may be used where intermediate newels are not needed for strength but to maintain cable support every 48". Cable 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 4000-350-55B

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



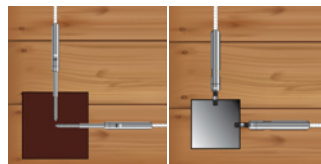
**One corner newel- cable on same plane. Lag style and through post fittings on same newel.**

#### PROS

Through post fittings cost less than lag style.

#### CONS

Some people prefer all of the fittings to match.



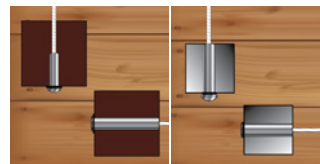
**One corner newel- cable on same plane. Lag style fittings on both sides.**

#### PROS

All fittings match.

#### CONS

Lag fittings cost more than through post fittings.



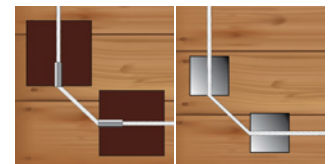
**Two corner newels- cable on same plane. Cable stops at one newel and resumes at the next one. Any cable fittings can be used to start and stop these runs.**

#### 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.

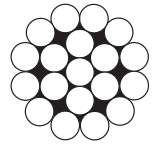
**One corner newel- Cable NOT on same plane. Through post fittings on both sides. Pros- fittings match and are less than lag style. Cons- most people want to see their cable runs on the same plane and do not find this option acceptable.**

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



## 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.



1 x 19

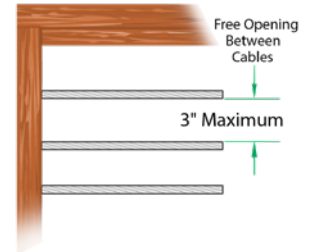
3/16" diameter cable should be used where higher minimum breaking strength is required or where a larger diameter is aesthetically desired.

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.

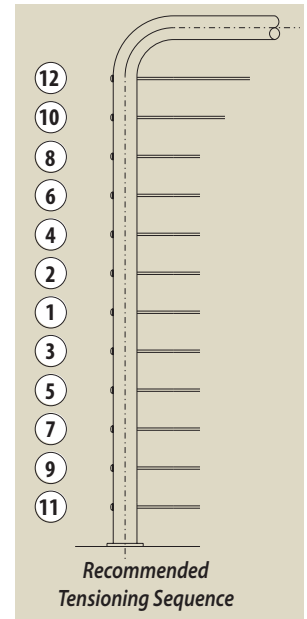
During the design phase of your project Oak Pointe will calculate what you need and your cables will be shipped with a swaged Ferrule or Threaded Swaging Stud attached to one end. The cable will be cut to the final length in the field. As with any installation method, we also recommend the use of special 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 29.

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

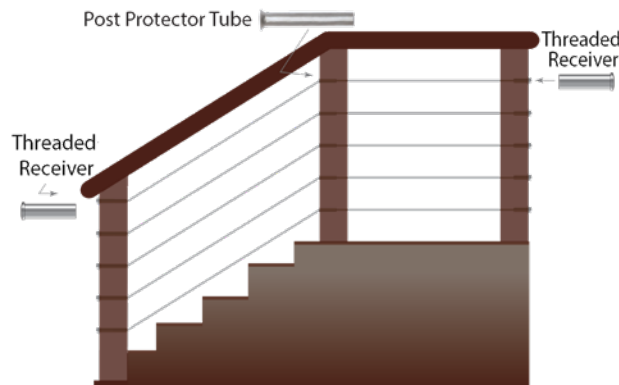
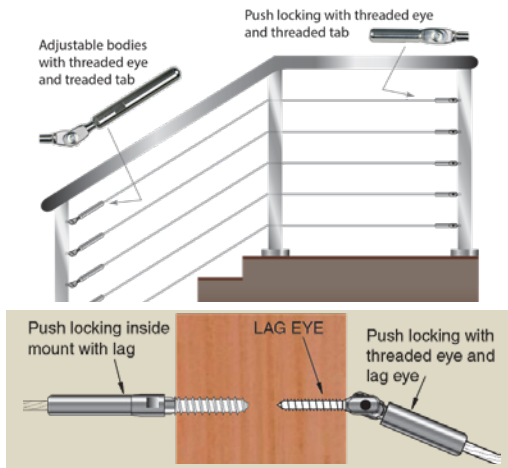
**Swageless fittings:** can only be used with 1x19 cable and are available for 1/8" and 3/16" diameters (specify when ordering).

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.



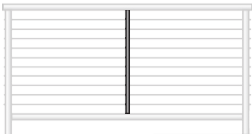
**NOTE-** Usually cable runs have a tensioning fitting on one end, but a tensioning fitting on both ends is needed in certain applications such as:

- 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 or cable braces

## 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

Order Plates: 2 per brace



**CAB-FLP-CBS**  
Cable Brace Floor Plate for level applications  
**CAB-FLP-CBS-P**  
Cable Brace Floor Plate for pitched applications

Order screws  
(2 per plate):  
QS-6 for wood  
QS-113 for metal



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

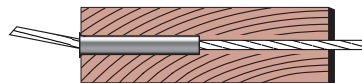


**CAB-BCP**  
Brace Connector



**CAB-BCPS**  
Brace Connector-  
Stair

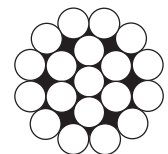
## Newel Accessories



**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

# Step Two... 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 18.

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.

Delrin® is a DuPont registered trademark.


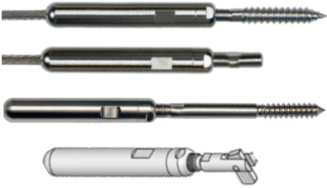




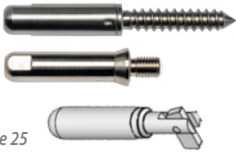



# Step Three... Choose your fittings

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
<p>Swaged Fitting</p> <p>Threaded Receiver</p>  <p>See Page 21</p>	<p>Swageless Fitting</p> <p>Hidden Push Locking Fitting</p>  <p>See Page 24</p>	<p>Swaged Fitting</p> <p>Threaded Receiver</p>  <p>See Page 25</p>	<p>Swageless Fitting</p> <p>Push Locking Pivoting Inside Mount II</p>  <p>See Page 27</p>
<p>Swaged Fitting</p> <p>Adjustable Bodies</p>  <p>See Page 22</p>	<p>Swageless Fitting</p> <p>Hidden Pull Locking Fitting</p>  <p>See Page 24</p>	<p>Swaged Fitting</p> <p>Adjustable Bodies with Clevis End</p>  <p>See Page 26</p>	<p>Swageless Fitting</p> <p>Hidden Pull Locking Fitting</p>  <p>See Page 28</p>
<p>Swageless Fitting</p> <p>Push Locking Tensioner Inside Mount II</p>  <p>See Page 19</p>	<p>Swageless Fitting</p> <p>Push Locking Inside Mount II</p>  <p>See Page 25</p>	<p>Swageless Fitting</p> <p>Push Locking Pivoting Tensioner Inside Mount II</p>  <p>See Page 26</p>	<p>Swageless Fitting</p> <p>Hidden Push Locking Fitting</p>  <p>See Page 28</p>

## 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 Clevis End	and	Push Locking Pivoting Inside Mount II
Push Locking Pivoting Tensioner Inside Mount II	and	Push Locking Pivoting Inside Mount II
Threaded Receiver	and	Hidden Pull Locking Fitting



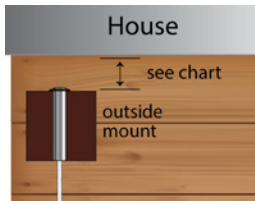
**Tensioning Fittings for Level Applications**

<b>Threaded Receiver</b>
316 STAINLESS STEEL
SWAGED FITTING
TENSIONING
LEVEL APPLICATION
<i>Stair Application see page 25</i>



Wood cable system with Threaded Receiver (no visible fittings)

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.

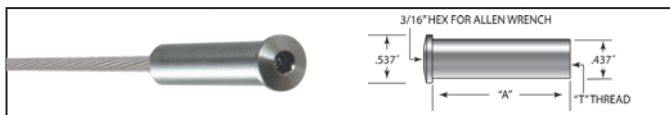


To use the receiver the newels must be mounted no less than the distance in the chart below from the house or other barrier. Newels using inside mount fittings have no clearance restrictions.

**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.



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

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

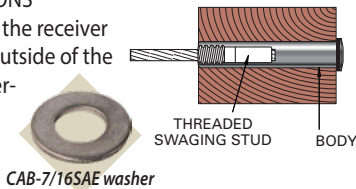
<sup>^</sup> requires CAB-7/16SAE washer



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

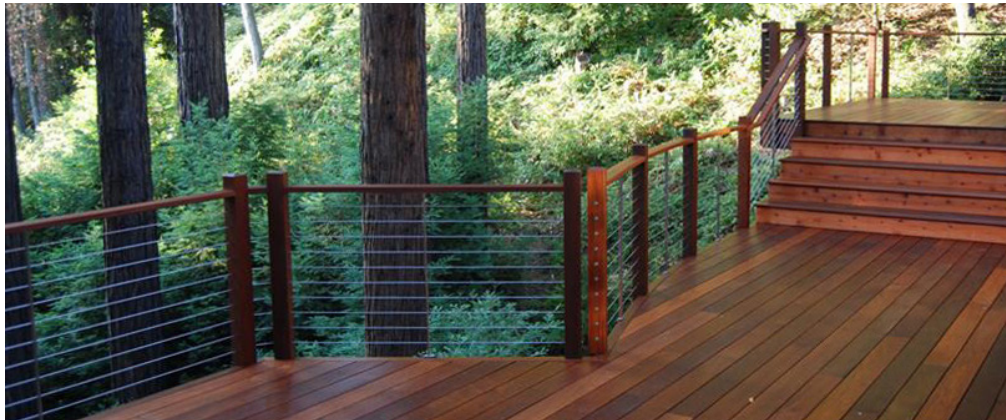
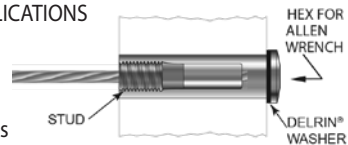
**WOOD APPLICATIONS**

- 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.



**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	CONS
Very reliable cost effective fitting	Requires two newels at transitions (such as corners) to keep cable runs on the same plane on adjoining sides
Swaged fitting but no field swaging necessary. Let Oak Pointe do your swaging & pair with swageless fitting on other end	Distance to barriers is restricted
Body of fitting is concealed within newel, no big bulky buttons on outside of newel	



*Tensioning Fittings for Level Applications (Continued)*

**Adjustable Bodies**

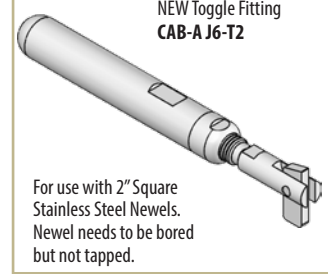
316 STAINLESS STEEL

SWAGED FITTING

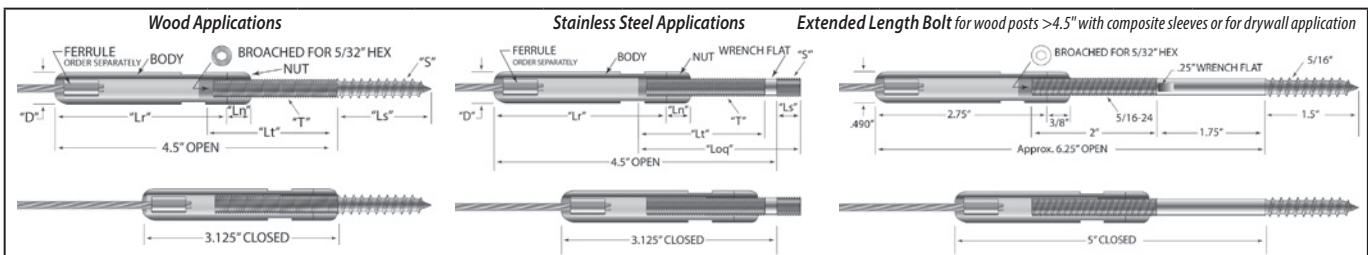
TENSIONING

LEVEL APPLICATION

Stair Application see page 26



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.



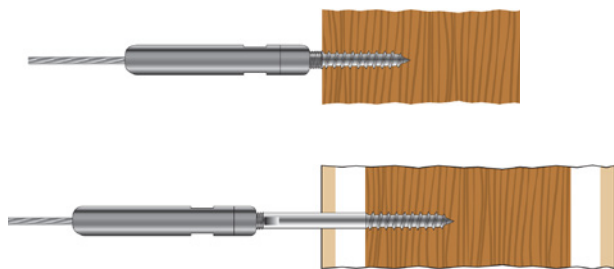
**Adjustable Bodies - for 1/8" or 3/16" cable**

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

<sup>^</sup> order Ferrule separately \*Always be sure that walls are structurally sound for withstanding cable tensioning.

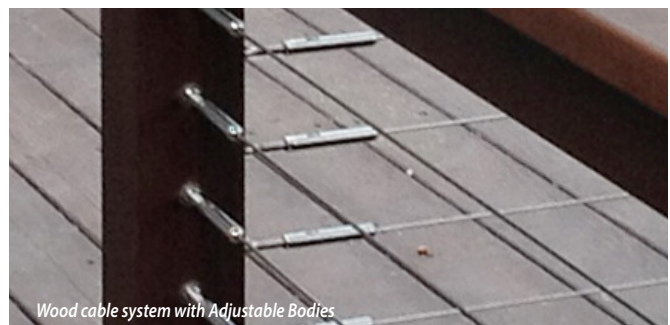
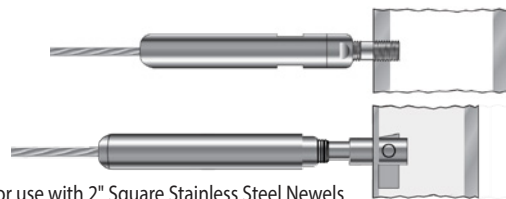
**WOOD APPLICATIONS/ WOOD POSTS with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS**

-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.

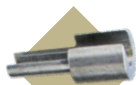




*Tensioning Fittings for Level Applications (Continued)*

**Push Locking Tensioner Inside Mount II**

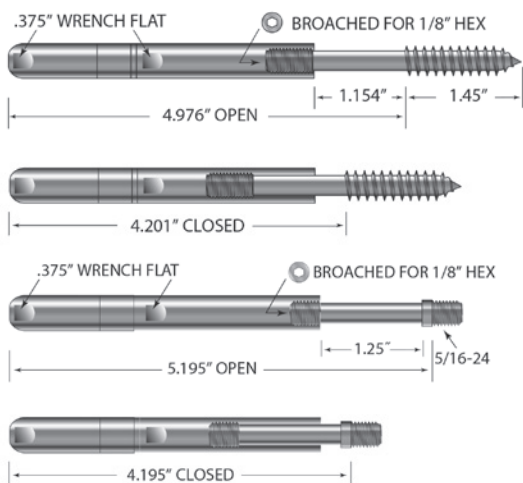
<b>316 STAINLESS STEEL</b>
<b>SWAGELESS FITTING</b>
<b>TENSIONING</b>
<b>LEVEL APPLICATION</b>
<i>Stair Application see page 26</i>



*Cable Release  
CAB-PL-KEY  
for 1/8" cable only*

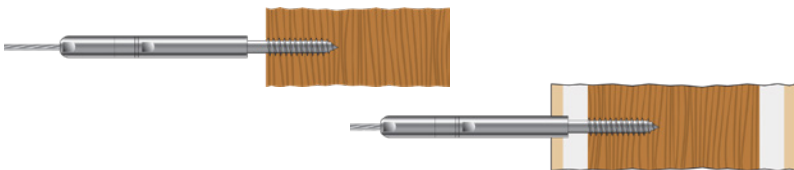


Our **Push Locking Tensioner Inside Mount II** fitting should be used for level applications only. This fitting is comprised of Hanger Bolt or Threaded Bolt and Push Locking body which has the swageless wedges to grasp the cable. Tension is created by securing the post-side section of the body onto the 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.\*



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

**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.

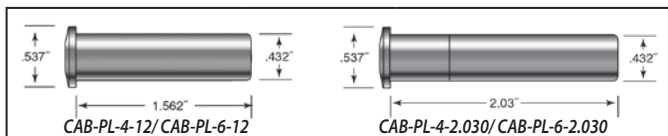
### Hidden Push Locking Fitting

316 STAINLESS STEEL
SWAGELESS FITTING
NON-TENSIONING
LEVEL APPLICATION
Stair Application see page 28



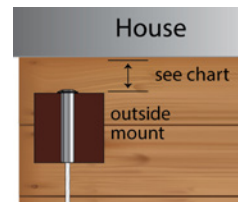
**The Hidden Push Locking Fitting** is a swageless non-tensioning option that can be used with any tensioning device. It has the same appearance as the

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.



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

Newel Types	Part Nbr		Bore Size
	for 1/8" Cable	for 3/16" Cable	
Wood Square <sup>^</sup> - 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"

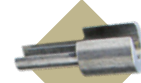


	Min Distance*
CAB-PL-X-12	1.67"
CAB-PL-X-2.030	2.13"

\* Minimum distance between newel and house or other barrier.



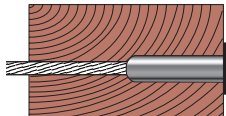
^ requires CAB-7/16SAE washer



Cable Release CAB-PL-KEY for 1/8" cable only

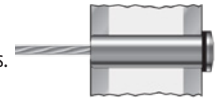
#### WOOD APPLICATIONS –

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 28



**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.



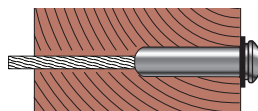
**Hidden Pull Locking Fitting - for 1/8" or 3/16" cable**

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"

^ requires CAB-7/16SAE washer

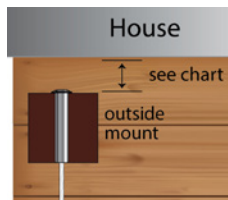
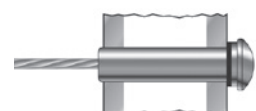
#### WOOD APPLICATIONS –

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.



	Min Distance*
CAB-PUL-X-12	1.77"
CAB-PUL-X-2.030	2.24"

\* Minimum distance between newel and house or other barrier.



CAB-7/16SAE washer



Cable Release CAB-PL-KEY for 1/8" cable only





**Non-Tensioning Fittings for Level Applications (continued)**

**Push Locking Inside Mount II**

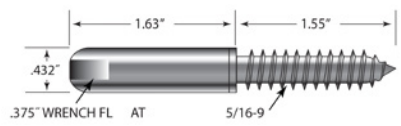
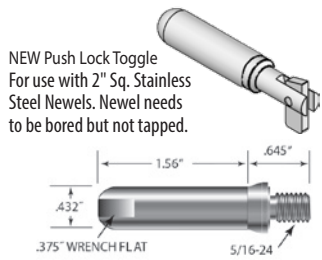
- 316 STAINLESS STEEL
  - SWAGELESS FITTING
  - NON-TENSIONING
  - LEVEL APPLICATION
- Stair Application see page 27*



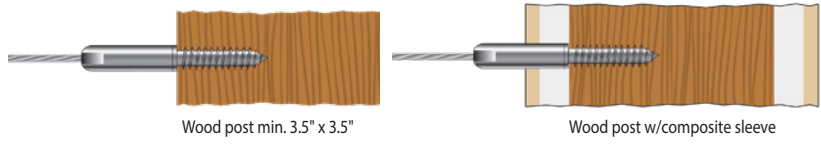
**Push Locking Inside Mount II** fittings are for level runs where the back side of the newel is not accessible or where the desired installation is for inside mount fittings. Use with any tensioning fittings. Attach the tensioning device to one end newel, cut the cable to the correct length, push the 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"	<b>CAB-PL-LAG4</b>	7/32"	-
	3/16"	<b>CAB-PL-LAG6</b>		
Stainless Steel- round or square	1/8"	<b>CAB-PL-IMTH4</b>	9/32"	5/16-24
	3/16"	<b>CAB-PL-IMTH6</b>		
Attaching to wall through drywall*	1/8"	<b>CAB-PL-LAG4</b>	7/32"	-
	3/16"	<b>CAB-PL-LAG6</b>		
Toggle Attaching to 2" Sq. SS Newel	1/8"	<b>CAB-PL-CNT-4</b>	5/16"	-
	3/16"	<b>CAB-PL-CNT-6</b>		



**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\*.



**STAINLESS STEEL APPLICATIONS**  
- The Push Locking Inside Mount II threaded bolt fastens into a drilled and tapped hole in stainless steel newels. This fitting comes with a Delrin® (plastic) washer when used with stainless steel newels.



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

**Tensioning Fittings for Stair Applications**

**Threaded Receiver**

- 316 STAINLESS STEEL
  - SWAGED FITTING
  - TENSIONING
  - STAIR APPLICATION
- Level Application see page 21*



Our very popular **Threaded Receiver** is also well suited for stair applications on round or square newels. In fact, it can be used on rake or severe pitches up to 35° 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 21 from the house or other barrier. For Threaded Receiver ordering information, see page 21.

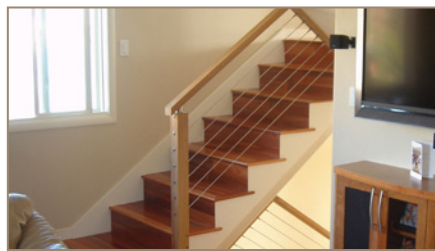
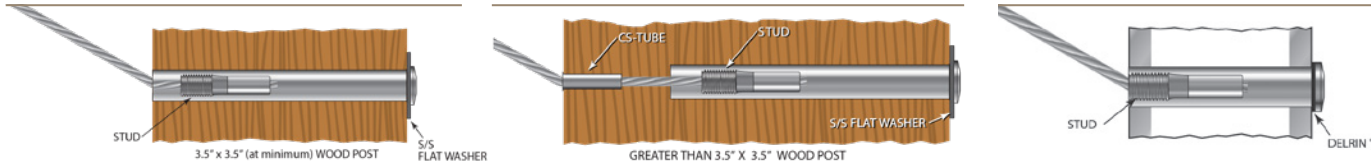


Photo courtesy of E.F. San Juan, Inc. Youngstown, FL



**Tensioning Fittings for Stair Applications (continued)**

**Adjustable Bodies with Clevis End**

**This Adjustable Bodies with Clevis End**

316 STAINLESS STEEL

SWAGED FITTING

TENSIONING

STAIR APPLICATION

Level Application see page 22

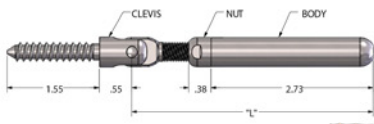
is a tensioning fitting. The mounting end has a male thread that mates with the female thread within the body of the tensioner. The swaging ferrule (order separately) is swaged onto the cable and holds the cable inside the body. The body rotates on the cable and provides a considerable amount of take-up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



Swaging Ferrule

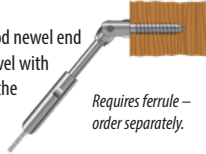
**Adjustable Bodies with Clevis End – for 1/8" or 3/16" Cable**

Novel Types	Part Number	Order Separately Ferrule Number	"L" Open	"L" Closed	Drill Size	Tap Size
Wood Square - min 3.5" Composite Sleeve ≤4.5"	CAB-A-J6-CL-W	CAB-F-4 (1/8")	5"	3 5/8"	7/32"	-
		CAB-F-6 (3/16")				
Stainless Steel - Round or Square	CAB-A-J6-CL-M	CAB-F-4 (1/8")	5"	3 5/8"	9/32"	5/16-24 UNF
		CAB-F-6 (3/16")				
Composite Sleeve > 4.5" Or Attaching to Wall through Drywall*	CAB-A-J6-CL-C	CAB-F-4 (1/8")	5"	3 5/8"	7/32"	-
		CAB-F-6 (3/16")				

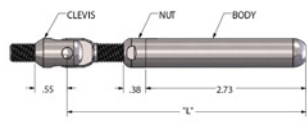


**WOOD APPLICATIONS –**

The Hanger Bolt screws into a wood newel end post (minimum 3.5") or wood newel with composite sleeve 4.5" or less and the fitting body attaches to it.

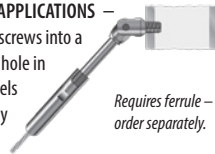


Requires ferrule – order separately.

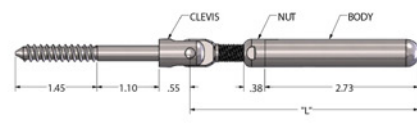


**STAINLESS STEEL APPLICATIONS –**

The Threaded Bolt screws into a drilled and tapped hole in stainless steel newels and the fitting body attaches to it.

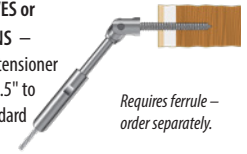


Requires ferrule – order separately.



**WOOD POSTS (>4.5") with COMPOSITE SLEEVES or FASTENING THROUGH DRYWALL APPLICATIONS –**

Ordered with the Hanger Bolt-Long screw, this tensioner can penetrate composite sleeves on newels > 4.5" to fasten to the wood core (smaller newels use standard hanger bolt) or for penetrating drywall to fasten to the structural wall behind. \*



Requires ferrule – order separately.

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

**Push Locking Pivoting Tensioner Inside Mount II**

**Our Push Locking Pivoting Tensioner Inside Mount II**

316 STAINLESS STEEL

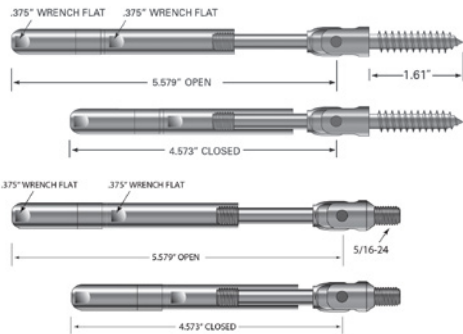
SWAGELESS FITTING

TENSIONING

STAIR APPLICATION

Level Application see page 23

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 0.375" wrench flats and always use cable tensioning pliers when gripping the cable.



**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.

Min. 3.5" x 3.5"

**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.\*

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

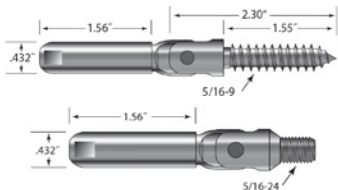


*Non-Tensioning Fittings for Stair Applications*

**Push Locking Pivoting Inside Mount II**

*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.*

- 316 STAINLESS STEEL
  - SWAGELESS FITTING
  - NON-TENSIONING
  - STAIR APPLICATION
- Level Application see page 25*



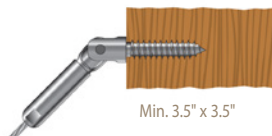
**Push Locking Pivoting Inside Mount II - for 1/8" or 3/16" cable**

Newel Types	Cable dia.	Part Nbr	Drill Size	Tap Size
Wood Square- min 3.5" Composite Sleeve ≤4"	1/8"	<b>CAB-PLP-LAG4</b>	7/32"	–
	3/16"	<b>CAB-PLP-LAG6</b>	–	–
Stainless Steel- round or square	1/8"	<b>CAB-PLP-IMTH4</b>	9/32"	5/16-24
	3/16"	<b>CAB-PLP-IMTH6</b>	–	–
Composite Sleeve >4" or attaching to wall through drywall*	1/8"	<b>CAB-PLP-LAG4-L</b>	7/32"	–
	3/16"	<b>CAB-PLP-LAG6-L</b>	–	–



**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.



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





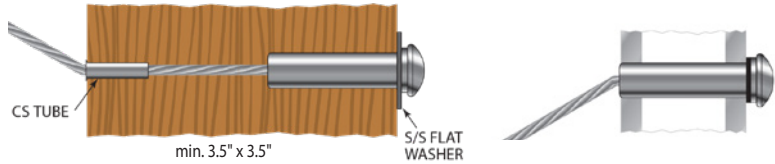
*Non-Tensioning Fittings for Stair Applications (continued)*

**Hidden Pull Locking Fitting**

- 316 STAINLESS STEEL
- SWAGELESS FITTING
- NON-TENSIONING
- STAIR APPLICATION
- Level Application see page 24*



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 19) 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 24.

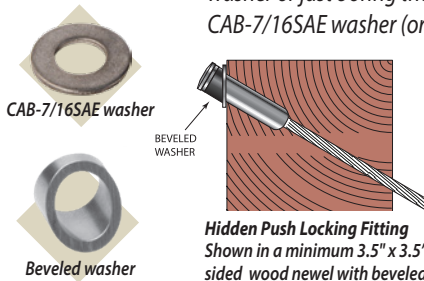
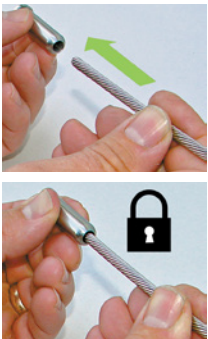


**Hidden Push Locking Fitting**

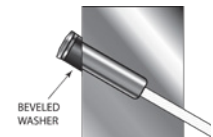
- 316 STAINLESS STEEL
- SWAGELESS FITTING
- NON-TENSIONING
- STAIR APPLICATION
- Level Application see page 24*



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 24.



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°



**Hidden Push Locking Fitting**  
Shown in flat sided stainless steel newel with beveled washer.

\*Order separately



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



### Order Cable Tools and Accessories

Cable Cutters	Cable Gripping Pliers	Cable Tension Gauge	Pre-Tensioner	Cable Release	Drilling Template
<b>CAB-CUTTER7</b>	<b>CAB-PLIERS</b>	<b>CAB-PT-CR</b>	<b>CAB-PT-01</b>	<b>CAB-PL-KEY</b>	<b>CAB-DRILL TEMP</b>
For light duty use to cut 1/8" diameter cables	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.	Check the tension on your cables with this easy to use gauge for cables up to 1/4" diameter.	For use with 1/8" and 3/16". 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.	Releases cable from Hidden Pull Locking & Push Locking type fittings prior to cable tensioning. 1/8" cable only.	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.
<b>CAB-CUTTER9</b>					
To cut cable up to 1/4" diameter					
<b>CAB-CUTTER12</b>					
For heavy duty use and to cut cables up to 3/8" diameter					

### Adhesives

### Stainless Steel Care & Maintenance Products



**Q-glu Stainless Steel Adhesive -**  
for gluing stainless steel to stainless steel

Type	Use	Part Number	Size
Glue	All	<b>19.1331.000.00</b>	1.69 fluid oz

Average connections per bottle:  
5/8"= 150, 1.5"= 60, 2"= 50



Includes 9.5 oz A-7 epoxy, A-24 nozzle & piston, will install 55-75 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	<b>A7P</b>	9.5 oz



**Extra Nozzle -** mixing nozzle for A-7 cartridge

Component	Use	Part Number	Size
	All	<b>A-24</b>	for A-7

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.



**Q-ultra-clean -** removes dirt and surface corrosion and reinforces the stainless steel's protective passive layer

Type	Use	Part Number	Size
Cleaner	All	<b>19.0610.000.00</b>	16.9 fl. oz



**Q-cleaner** cosmetic cleaner that removes stains, fingerprints and enhances the shine

Type	Use	Part Number	Size
Cleaner	All	<b>19.0601.000.00</b>	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	<b>19.0640.000.00</b>	6" X 9"

**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.



# OAK POINTE

WHERE TRADITION AND INNOVATION CREATE EXCELLENCE

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**GENERAL INQUIRY**

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**QUOTE REQUESTS**

[QUOTES@STAIRPARTSANDMORE.COM](mailto:QUOTES@STAIRPARTSANDMORE.COM)

**SUBMIT ORDERS**

[ORDERS@STAIRPARTSANDMORE.COM](mailto:ORDERS@STAIRPARTSANDMORE.COM)

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