

Stair Parts



Fitts 
Manufacturers of Quality Stair Parts

More Than a Half Century of Quality, Service & People



Frank Fitts, Jr. Circa 1947

For more than a half century, the Fitts' name has been associated with quality in the woodworking industry.

Founded in 1947, in Tuscaloosa, Alabama, Frank Fitts, Jr., initiated a standard of fine craftsmanship and quality service as a manufacturer of precision wood components. His talents as a woodsmith and his dedication to principle became a strong foundation for what Fitts Industries, Inc. has become today.

More than 50 years later the current Fitts family operates on those same principles manufacturing some of the finest stair parts on the market.

Our success is based on a vertically integrated structure that includes: the process and storage of green lumber, on site kiln drying operations, state-of-the-art compu-rip operation, lathe and moulder operations and East Coast and West Coast warehousing facilities that effectively supply our customers.

Fitts Industries' mission is to be a world leader in the wood products industry. By committing to people, technology, and a never-ending process of improvement, we will provide our customers the highest level of quality and service.



Fitts Industries Lathe Department Circa 1948

Lewis Fitts

Frank Fitts III

Fitts 

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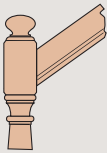
The Basics

Stairs are often one of the most architecturally significant features of the home, and at the same time one of the most difficult features to design. For the novice or the beginner, there are several things to take into consideration when choosing the correct stair system for your home:

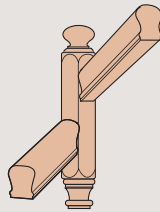
- Is the stair "Post-to-Post" or "Over-the-Post"?
- What species of wood will match the consistency of the home?
- Are the stairs carpeted or bare wood?
- What turnings or newel, baluster and handrail profiles match the theme of the home?
- Most importantly – What are the local building codes regarding stairs in your area?

Post-to-Post vs. Over-the-Post

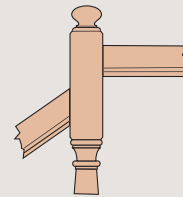
Post-to-Post Stair – Handrail runs between a series of newels.



Starting Newel

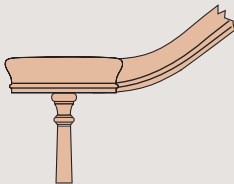


Transitional Newel
Newel w/13" face block

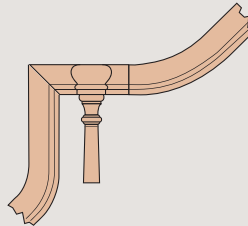


Landing Newel
Newel w/10" face block

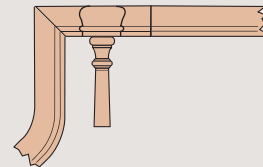
Over-the-Post Stair – Handrail runs over a series of newels using a series of fittings. This design provides the aesthetic that the handrail is continuous.



Volute Newel
Volute Fitting

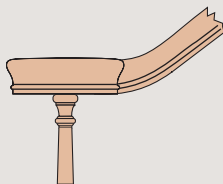


Landing Newel
Gooseneck Fitting

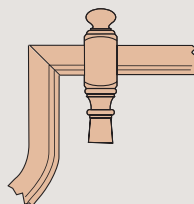


Landing Newel
Gooseneck Fitting

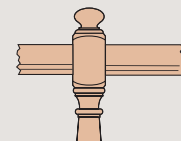
Post-to-Post Stair with Fittings – Handrail runs between a series of newels, but often utilizes gooseneck fittings to make handrail connections, such as changes in rake angle look effortless.



Volute Newel
Volute Fitting

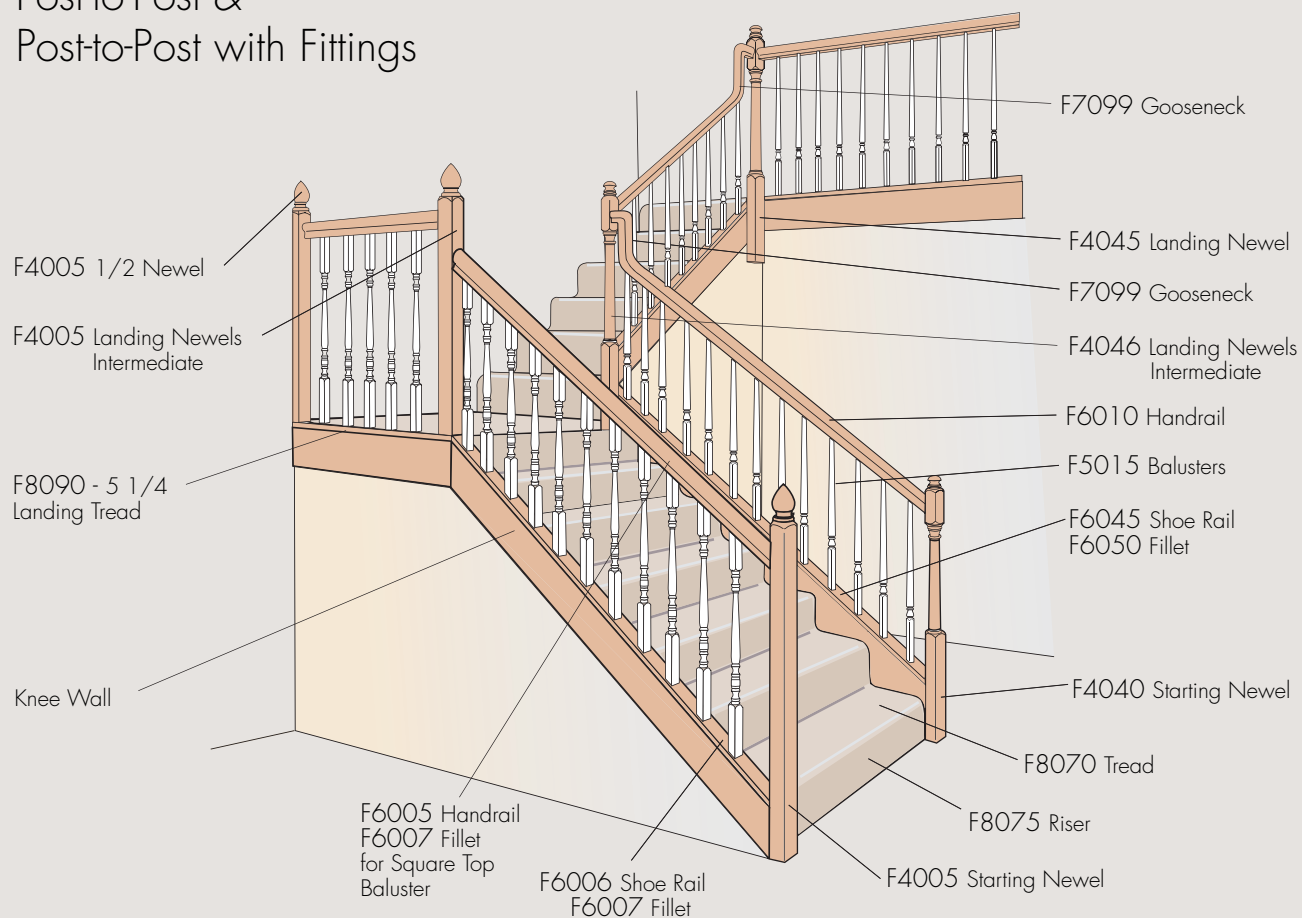


Transitional Newel
Gooseneck Fitting

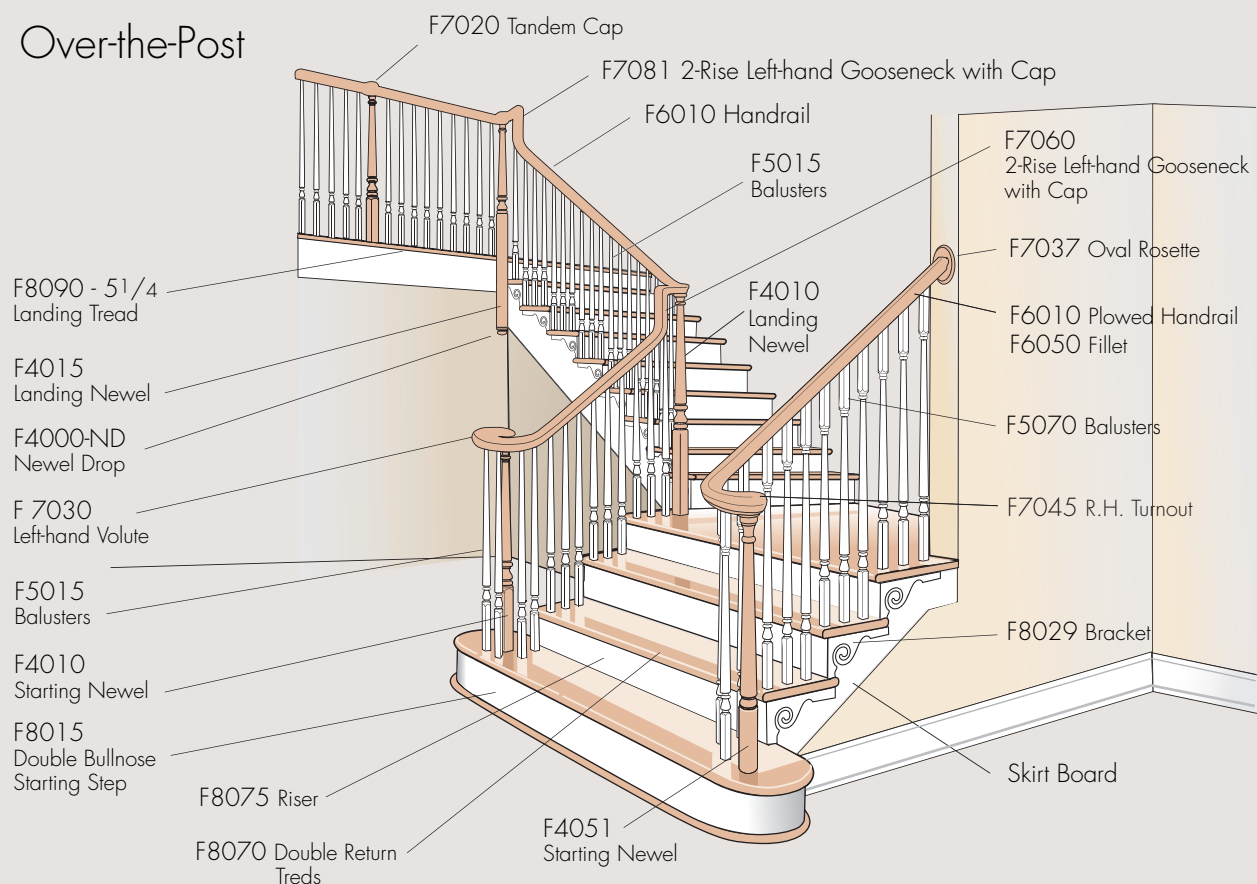


Landing/Balcony
Newel

Post-to-Post & Post-to-Post with Fittings



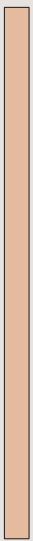
Over-the-Post



★ Variation in products are used for example only.

Hemlock Quick Reference

Newels Post-to-Post



FH4000-448
Page 17



FH4004
Page 17



FH4005
Page 17



FH4040
Page 13



FH4104
Page 17



FH4204
Page 17



FH3500
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FH4500
Page 14



FH4840
Page 15

Newels Over-the-Post



FH4010
Page 12



FH4011
Page 12



FH4012
Page 12



FH4013
Page 12



FH4014
Page 12



FH4015
Page 12



FH4018
Page 12



FH4020
Page 12

Hemlock Quick Reference

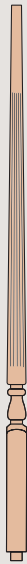
Balusters



FH5060
Page 17



FH5015
Page 12



FH5015-FL
Pages 12, 13



FH5315
Page 14



FH5610
Page 16



FH5611
Page 14



FH5105
Page 16



FH5050
Pages 12, 13

Balusters



FH5070
Pages 12, 13



FH5360-CH
Page 17



FH5005
Page 14

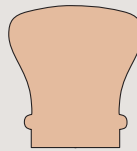


FH5801
Page 15

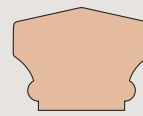


FH5802
Page 15

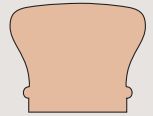
Handrail



FH6010
Plain/Plowed
Pages 12, 13, 16, 17, 18



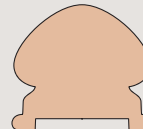
FH6910
Plain/Plowed
Pages 12, 13, 16, 17, 18



FH6210
Plain/Plowed
Pages 14, 17



FH6019
Pages 14, 15, 17



FH6005
Pages 14, 15, 17



FH6244
Page 15

Hardwood Quick Reference

Newels Post-to-Post



F4040
Page 28



F4140
Page 24



F4940-3-52
Page 30



F4940-FL-3-52
Page 30



F4500
Page 26



F4940-52
Page 32



F4940-FL-52
Page 32

Newels Post-to-Post



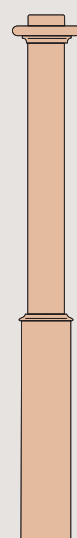
F4000
Page 29



F4000-CH
Page 29



F4090
Page 29



F4091
Page 29

Newels Over-the-Post



F4010-48
Page 25



FH4020
Page 12



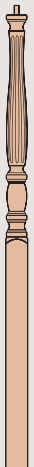
F4215
Page 27



F4220
Page 27



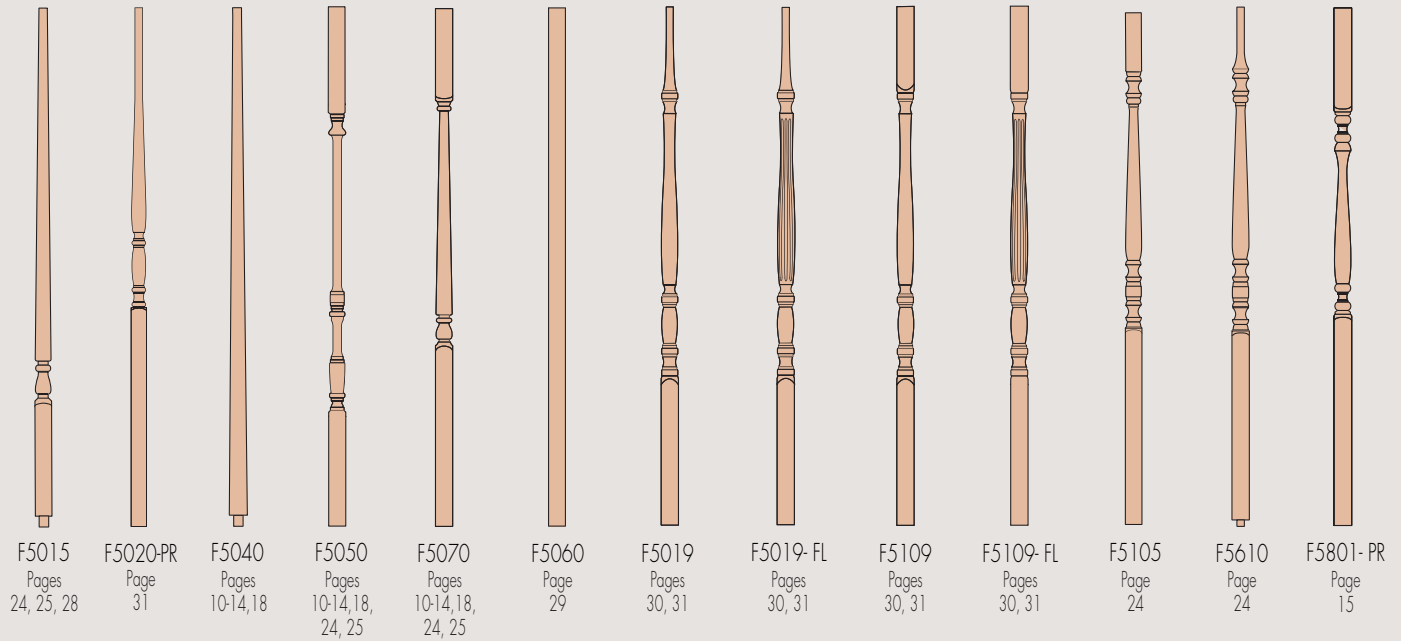
F4910-3
Page 31



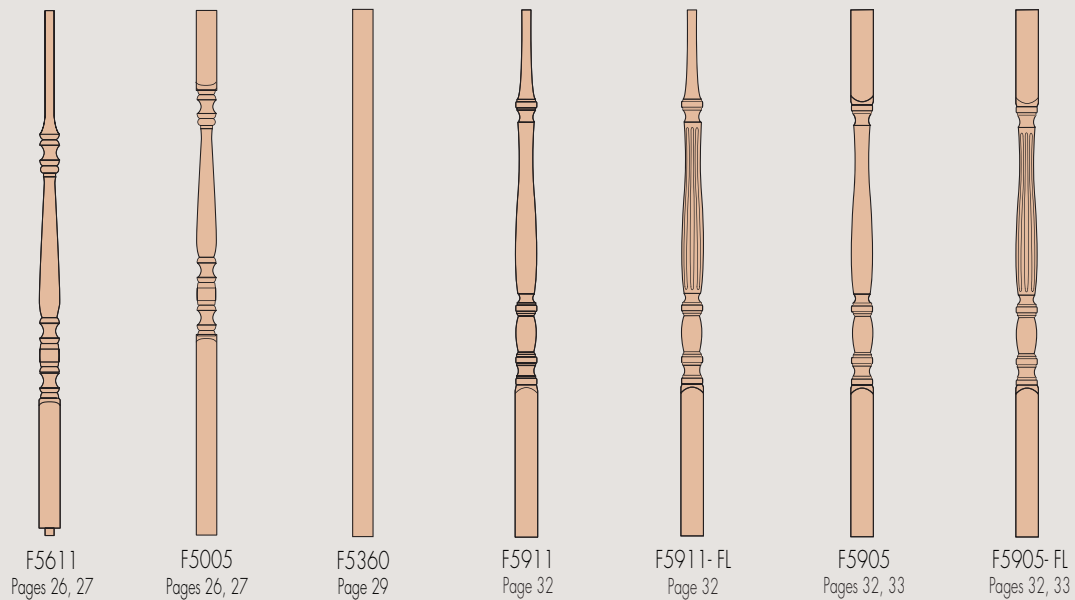
F4910-FL-3
Page 31

Hardwood Quick Reference

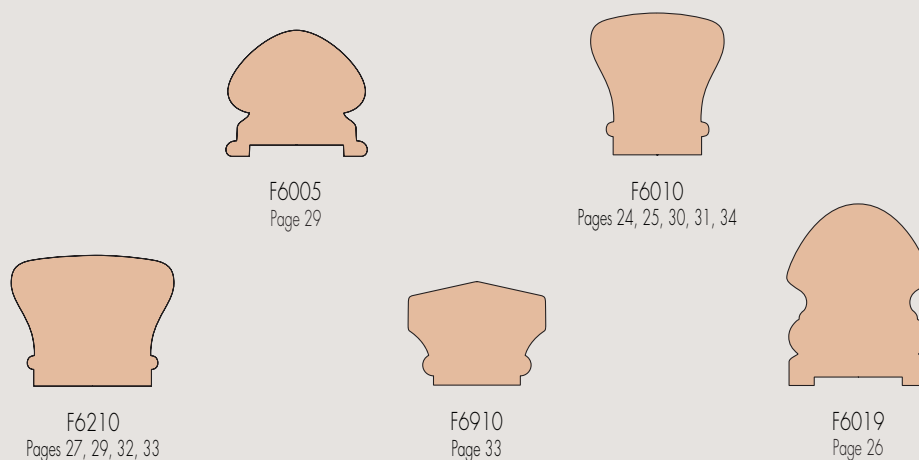
Balusters 1-1/4"



Balusters 1-3/4"

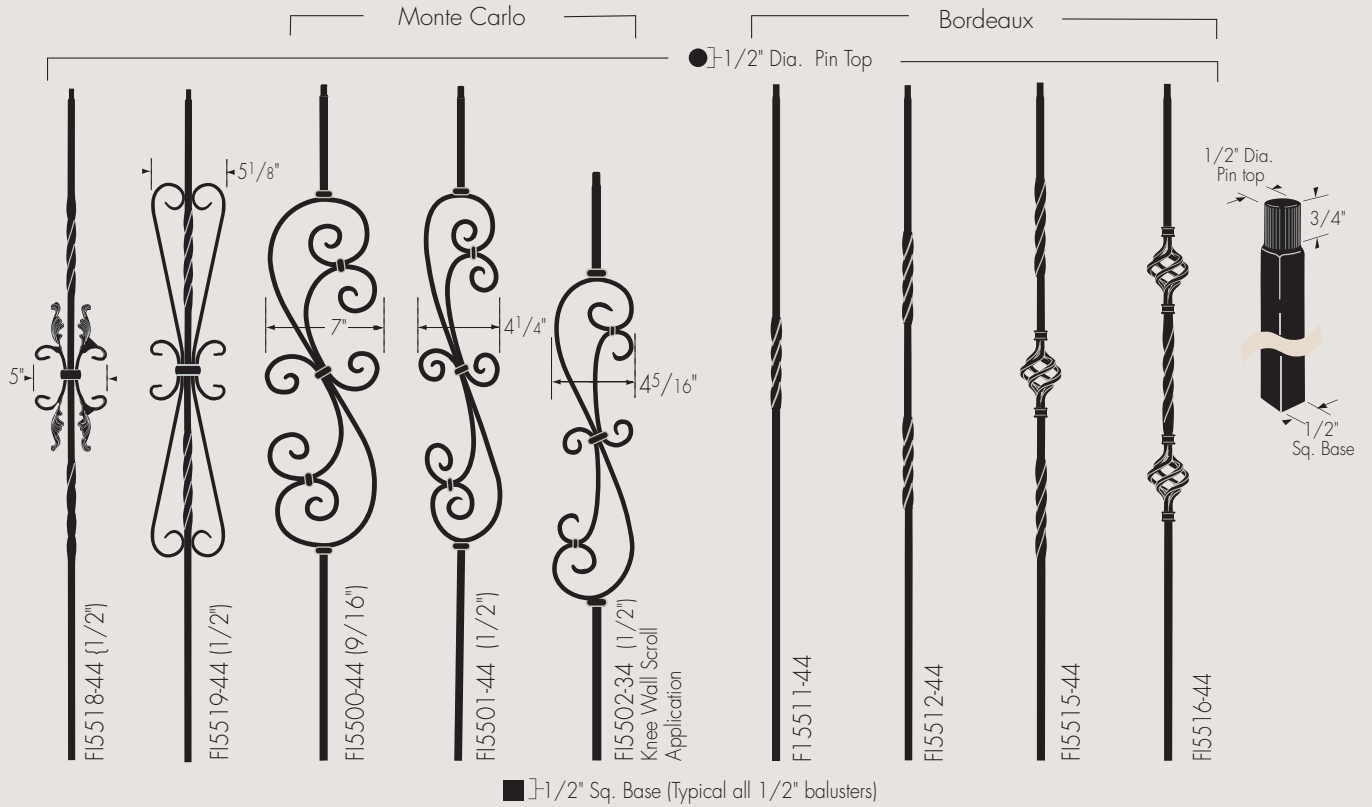


Handrail



Iron Balusters

1/2 inch Balusters



For 1/2" Balusters use:



FI3101 Shoe



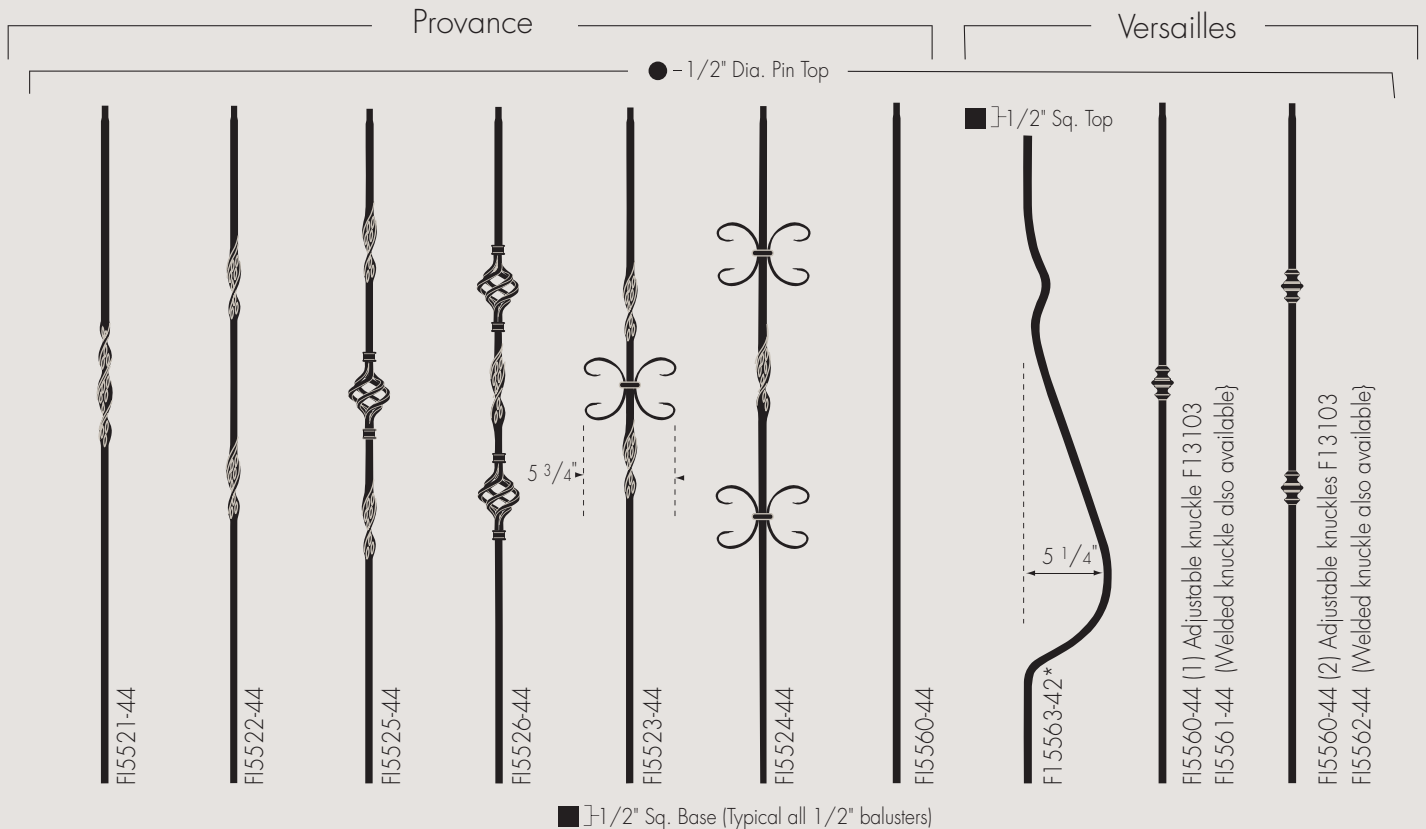
FI3102 Pitch Shoe
for Knee Wall Installation



FI3104 Shoe
w/screws



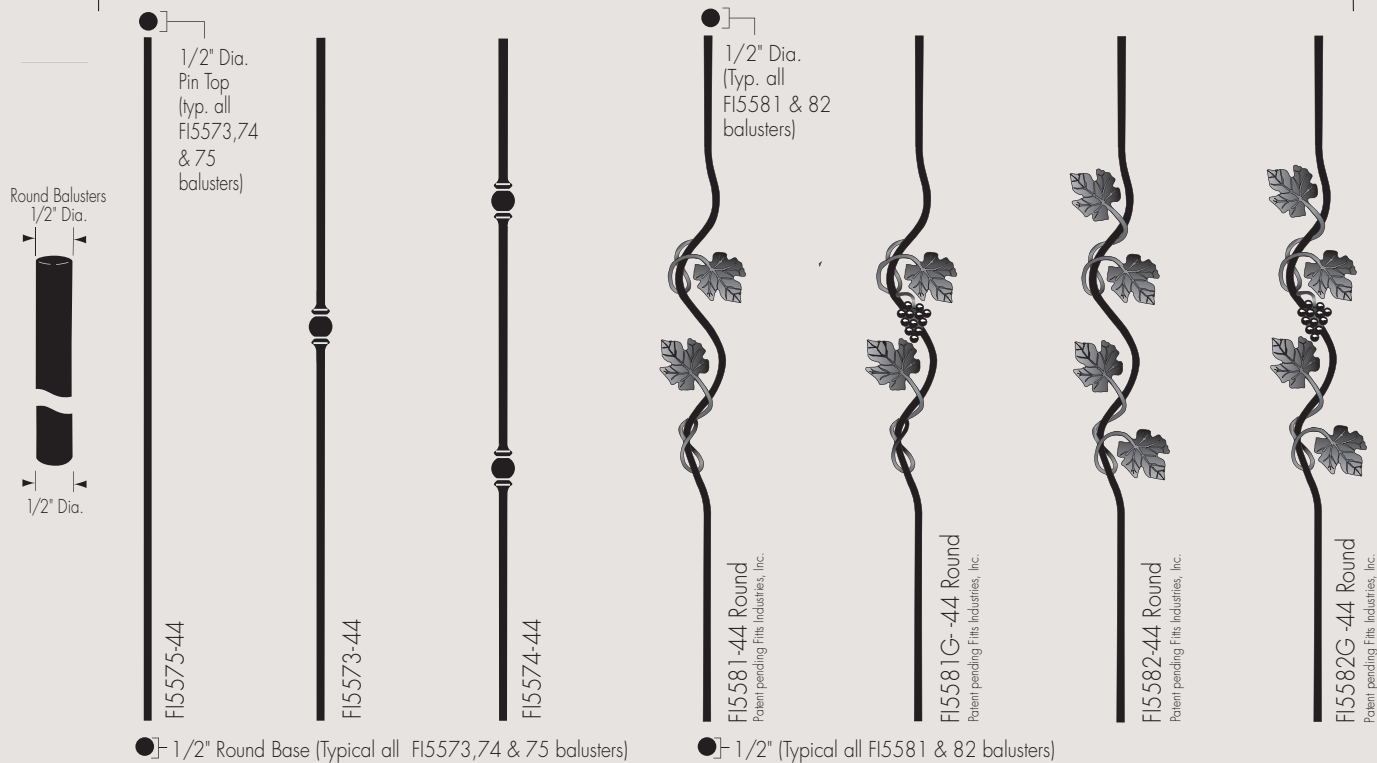
FI3103 Adjustable
Knuckle



Iron Balusters

1/2 inch Balusters

Burgundy Round



For 1/2" Round Balusters use:

FI3101-5 (1/2")
Round Shoe



FI3102-5 (1/2")
Round Shoe



FI3104-5 (1/2")
Round Shoe
w/screws



FI3101-2
9/16" Shoe



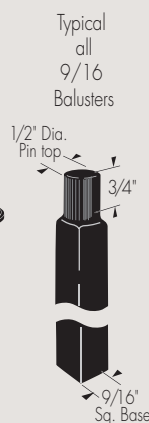
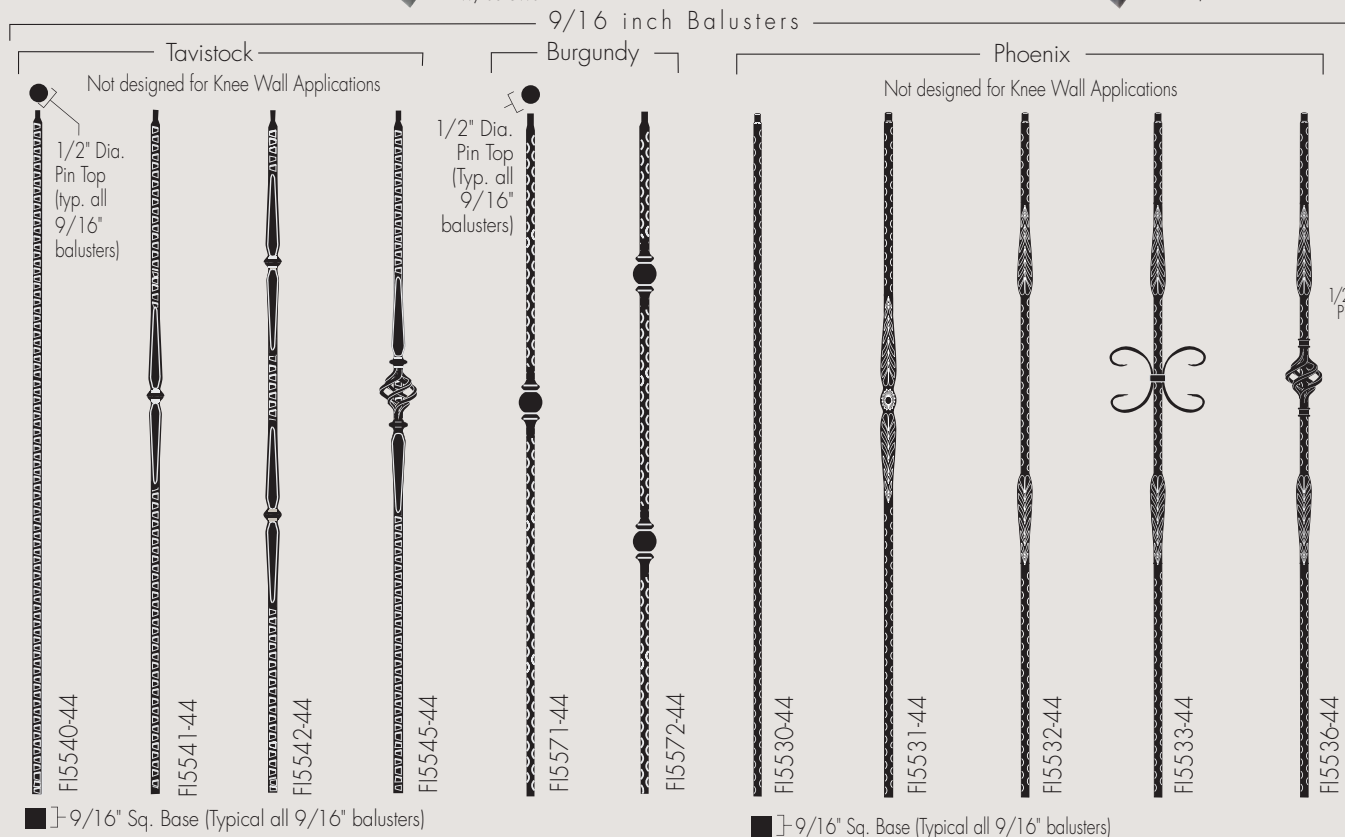
FI3102-2
9/16" Shoe



FI3104-2
9/16" Shoe
w/screws



For 9/16" Balusters use:





Style

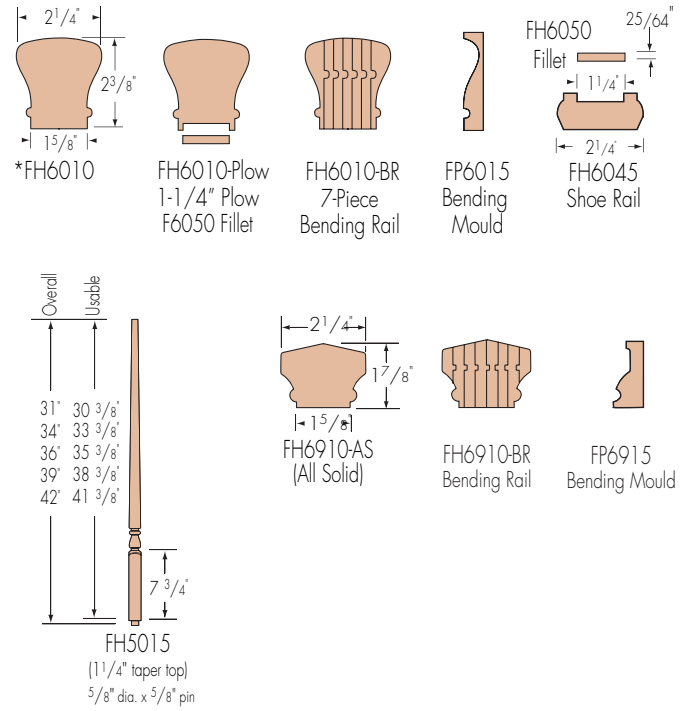
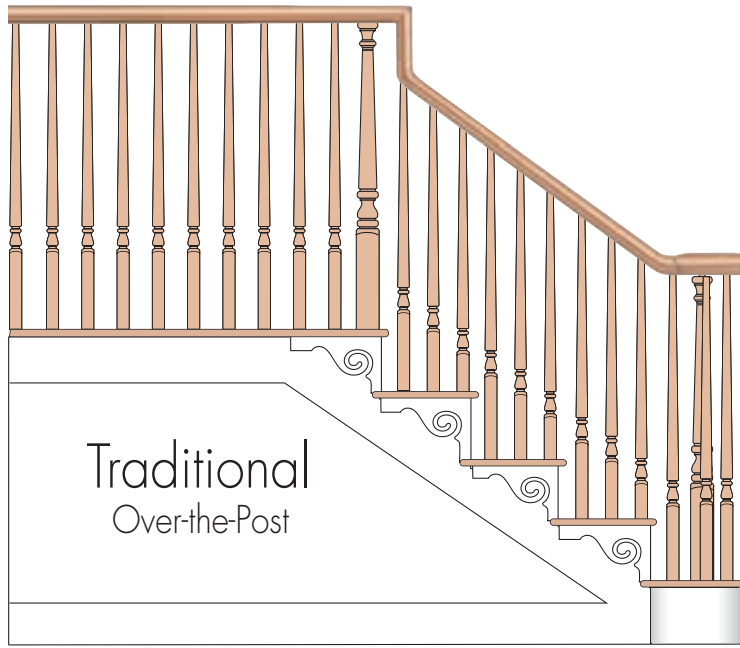
& Elegance



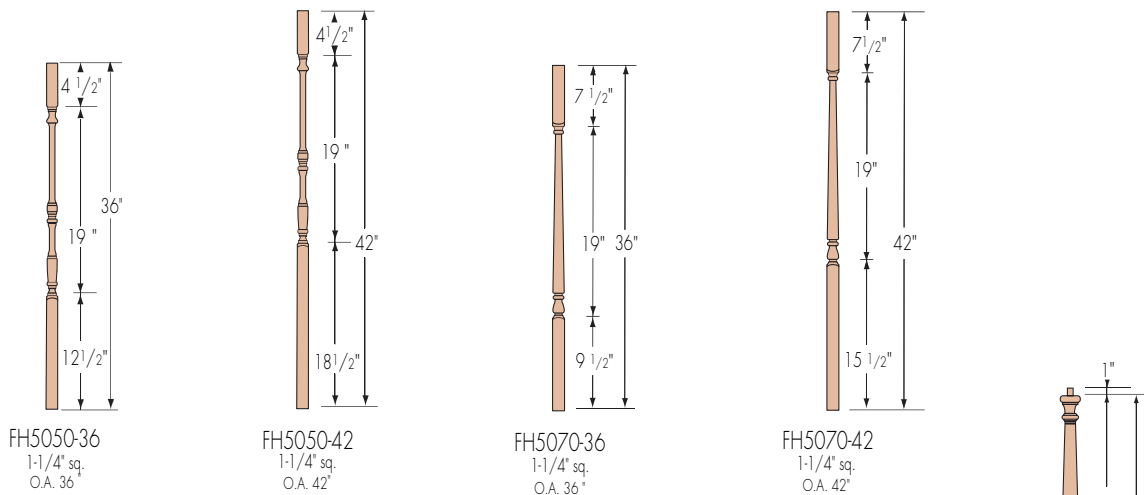


Hemlock Stair Parts

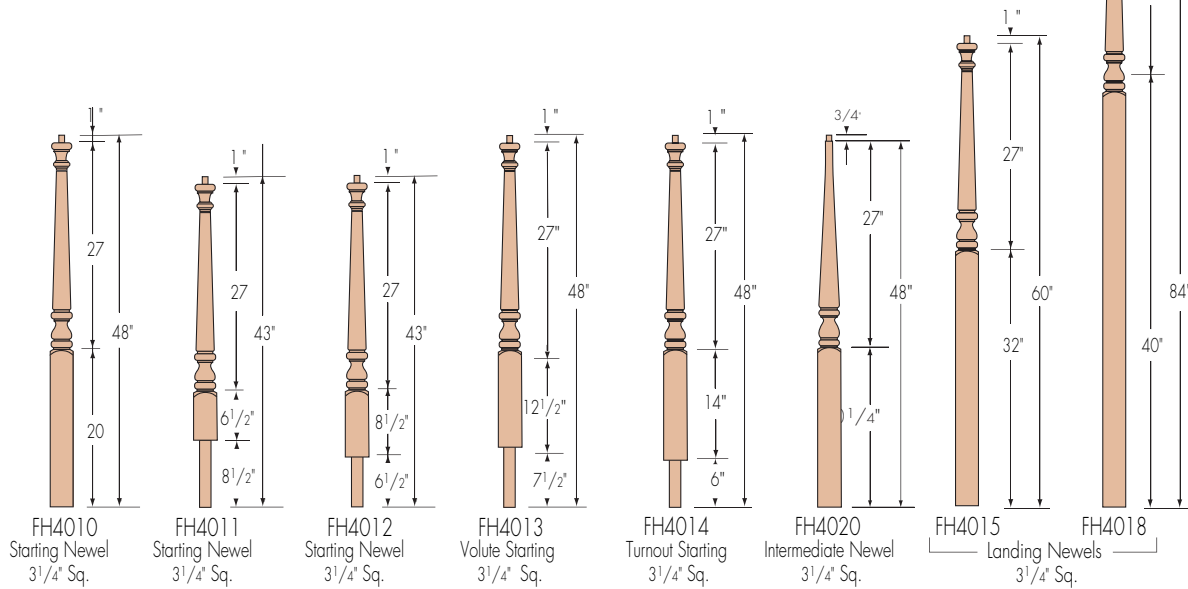
Handrail

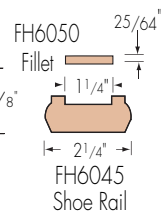
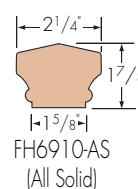
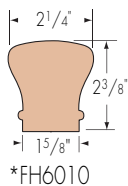
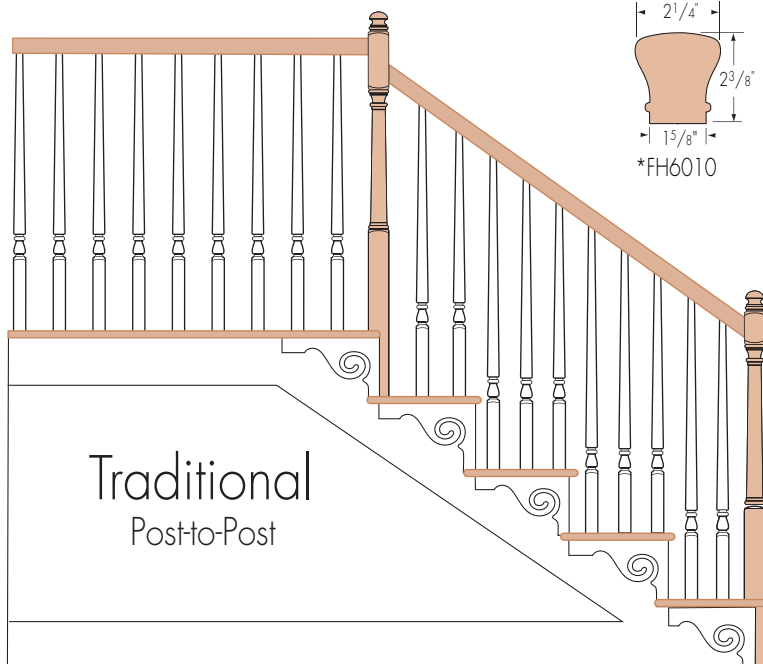


Balusters

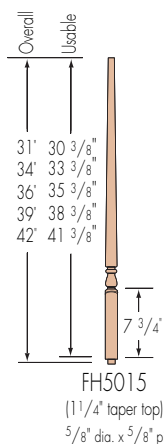


Newels

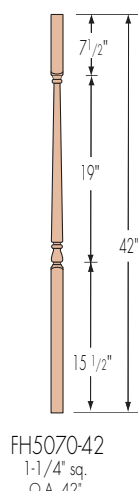
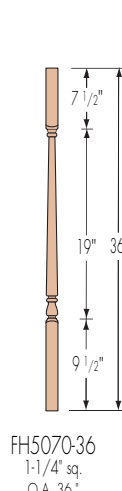
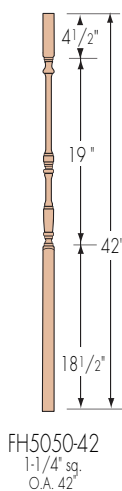
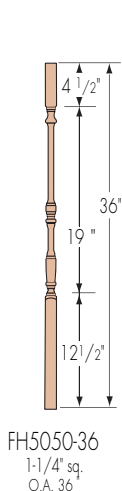




Balusters

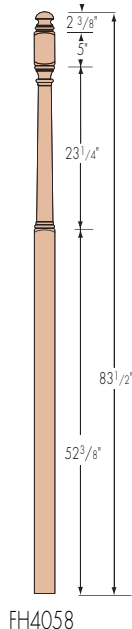
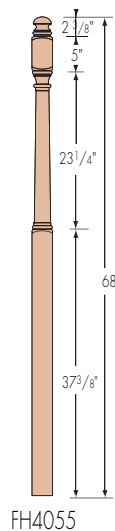
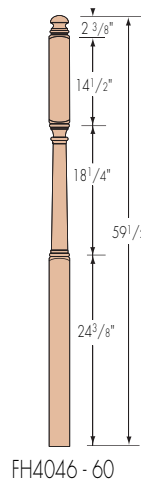
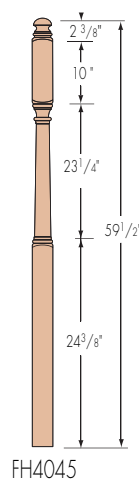
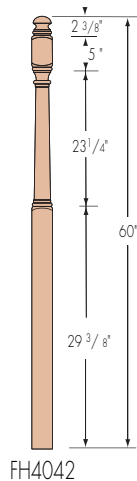
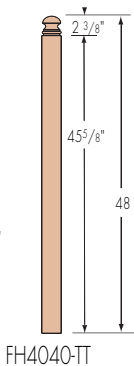
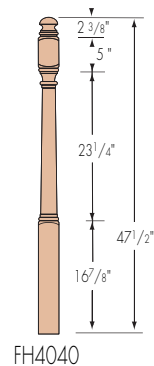


Balusters



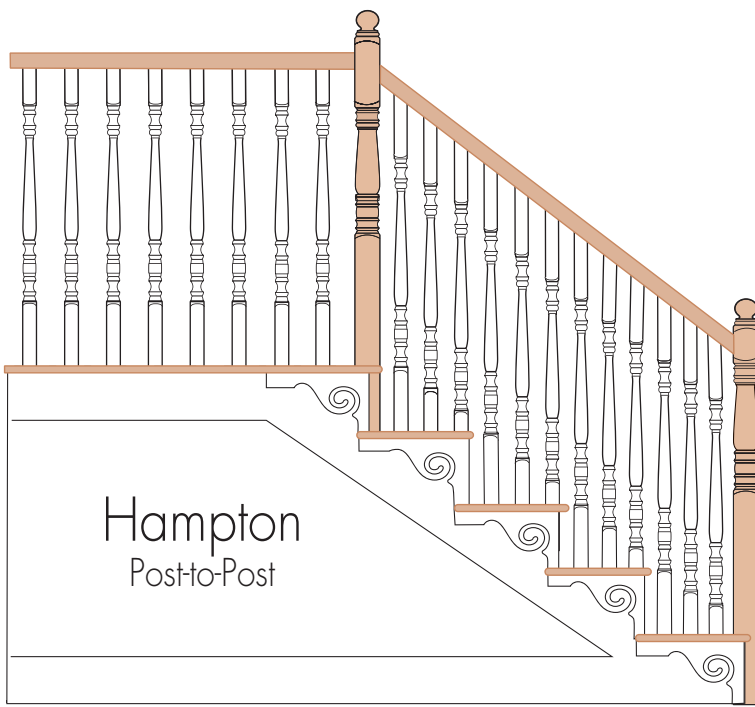
Newels

Two options
available
Ball Top
Specify BT

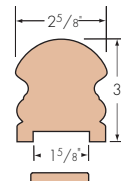


3-1/4" Starting Newels
Available in 3"

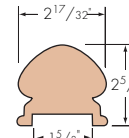
3-1/4" Landing Newels
Available in 3"



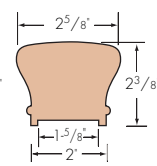
Handrail



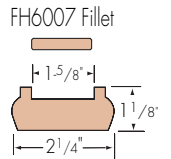
FH6019-Plow
1-3/4" Plow
F6007 Fillet



FH6005-Plow
1-3/4" Plow
F6007 Fillet

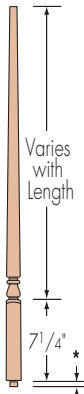


FH6210-Plow
1-3/4" Plow
FH6007 Fillet

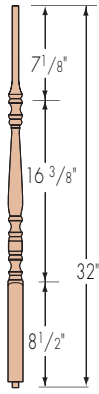


FH6006
Shoe Rail
1-5/8" Plow

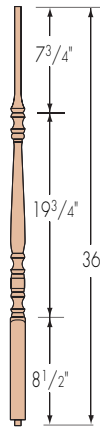
Balusters



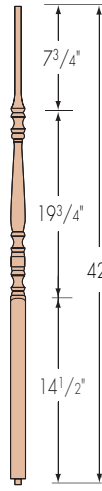
FH5315
1-5/8" sq.
*7/8" x 5/8" Pin



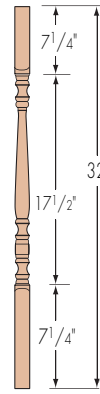
FH5611-32
1-5/8" sq.



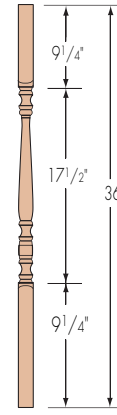
FH5611-36
1-5/8" sq.



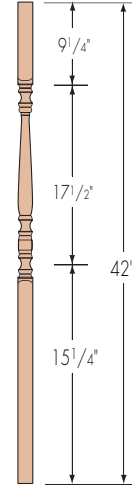
FH5611-42
1-5/8" sq.



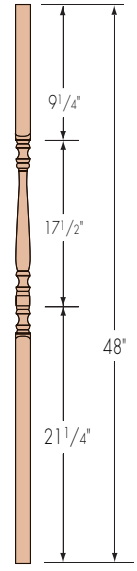
FH5005-32
1-5/8" sq.



FH5005-36
1-5/8" sq.

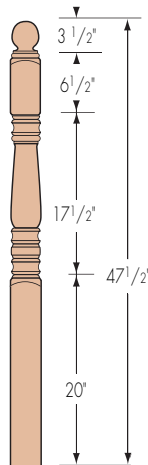


FH5005-42
1-5/8" sq.

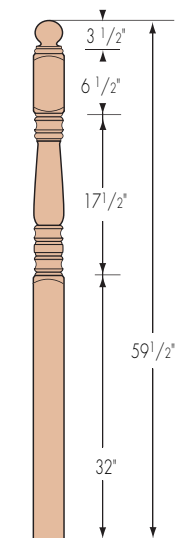


FH5005-48
1-5/8" sq.

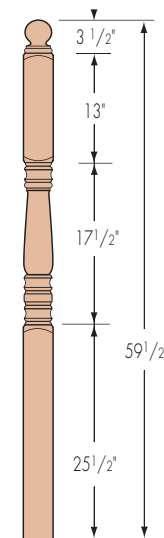
Newels



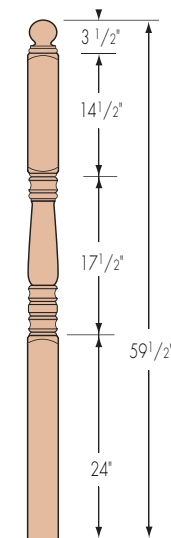
FH4500
3-1/4"
Starting Newels



FH4501

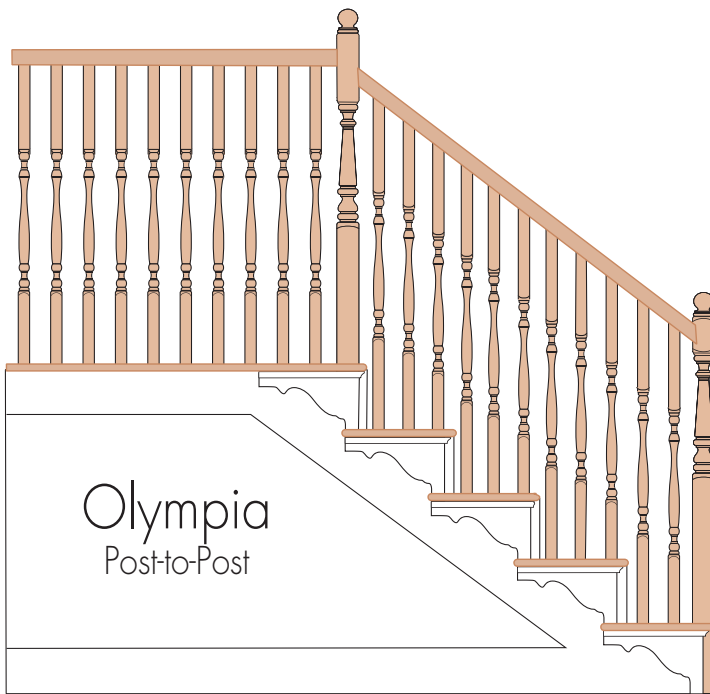


FH4505

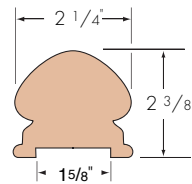


FH4506

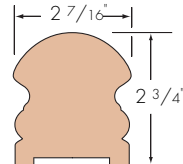
3-1/4" Landing Newels



Handrail



FH6005-Plow
1 5/8" Plow

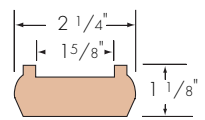


FH6019-Plow

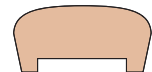
FH6007
1 5/8" Fillet



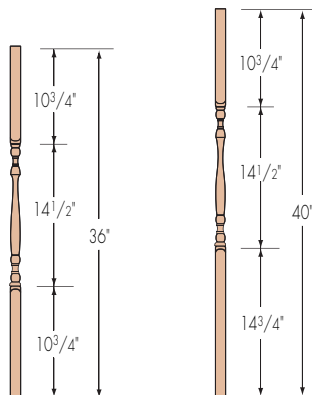
FH6008
Optional
1 5/8" Fillet



FH6006
Shoe Rail
1 5/8" Plow



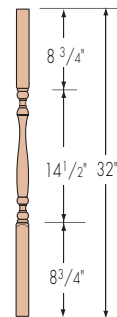
FH6244-Plow



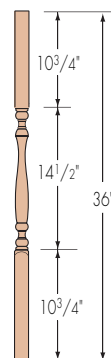
FH5801-36
1-1/4" Sq.

FH5801-40
1-1/4" Sq.

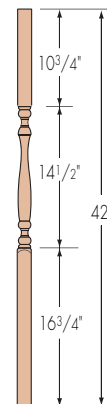
Use with non plow handrail



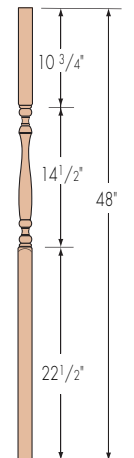
FH5802-32
1-5/8" Sq.



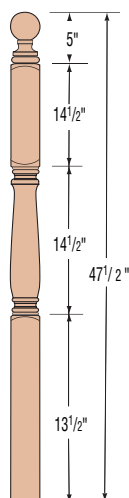
FH5802-36
1-5/8" Sq.



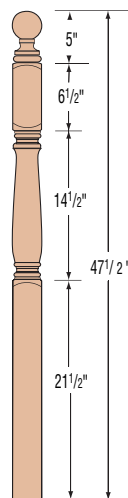
FH5802-42
1-5/8" Sq.



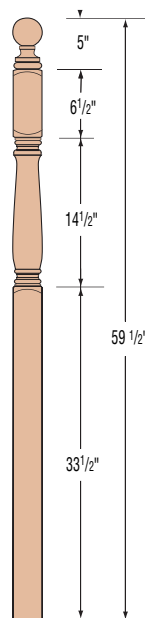
FH5802-48
1-5/8" Sq.



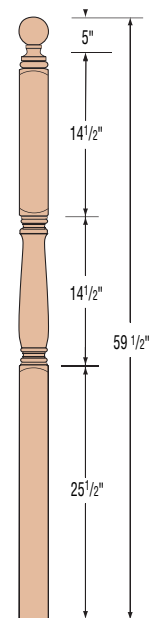
FH4840
3-1/4"
Starting Newel



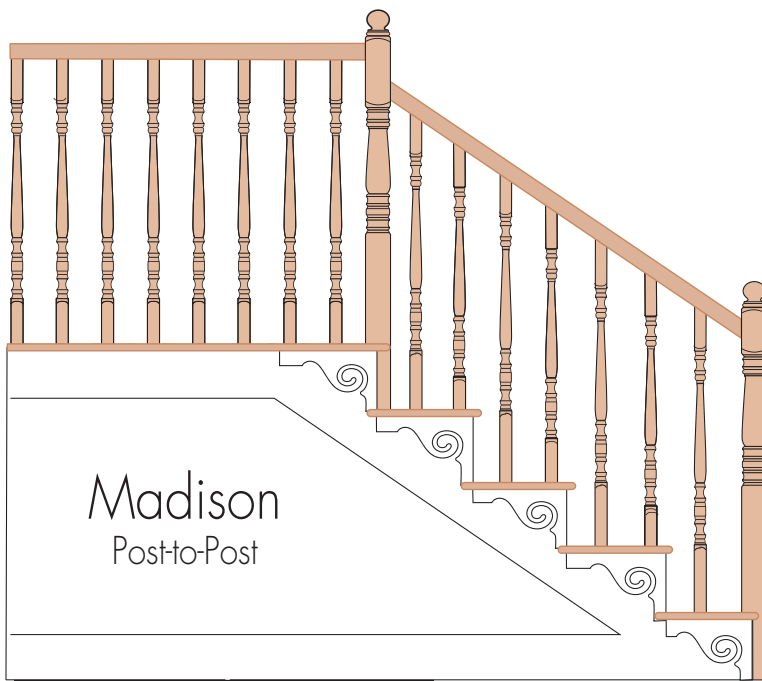
FH4842-48"
3-1/4"
Starting Newel



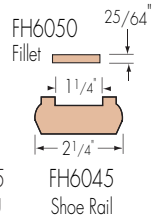
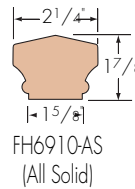
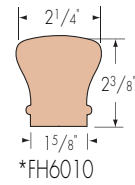
FH4842
3-1/4"
Landing Newel



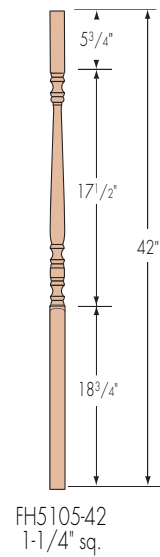
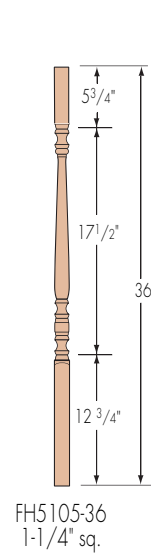
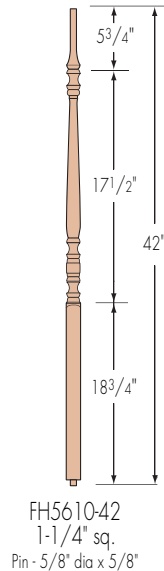
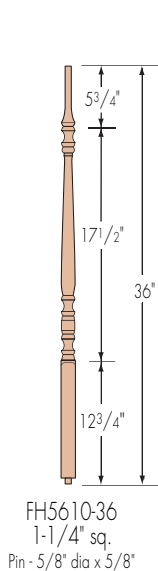
FH4846
3-1/4"
Landing Newel



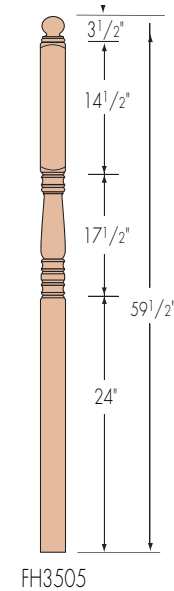
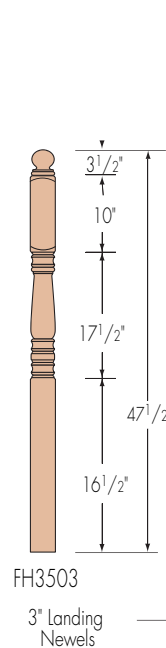
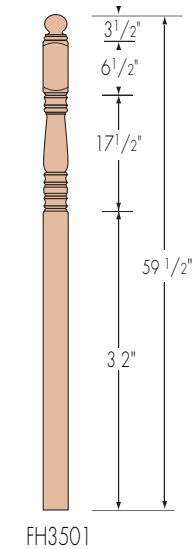
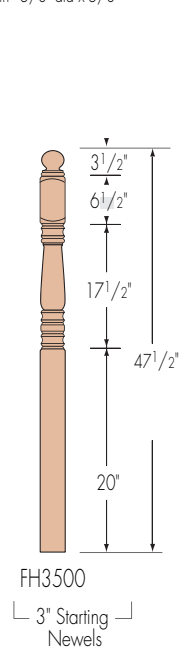
Handrail



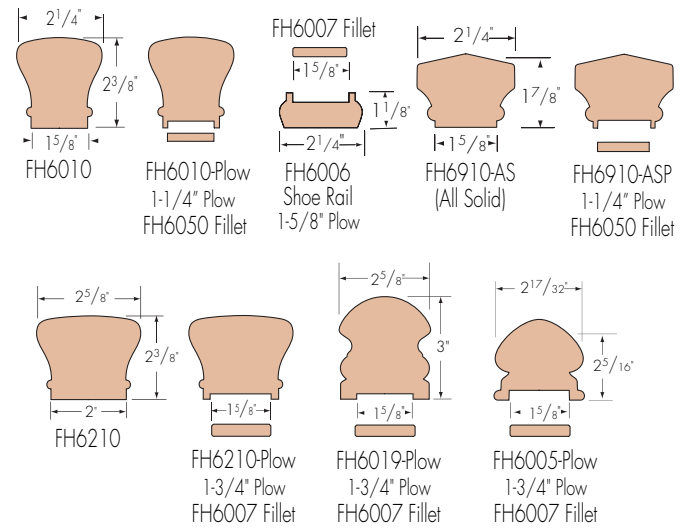
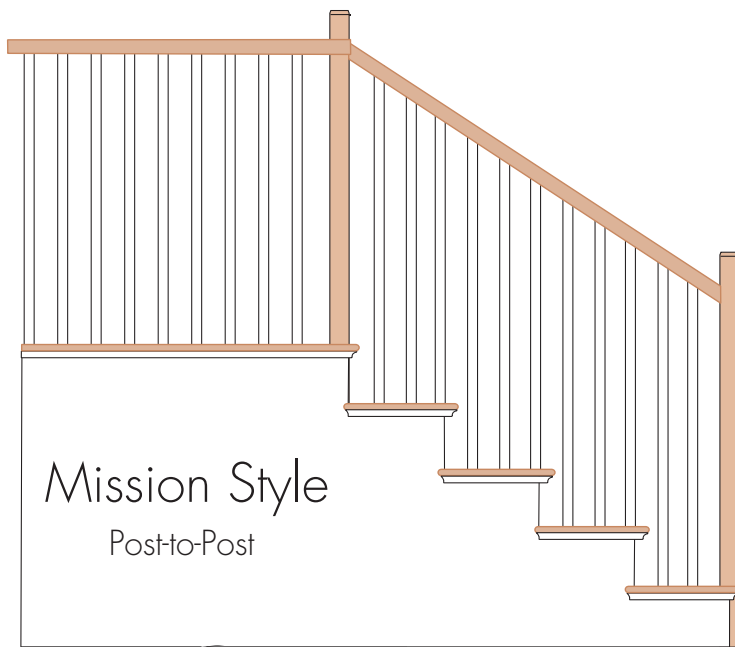
Balusters



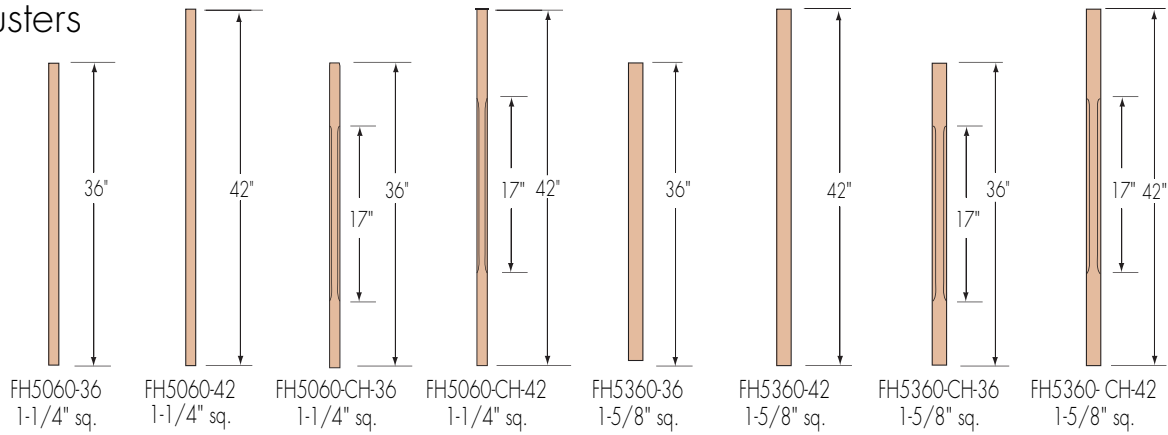
Newels



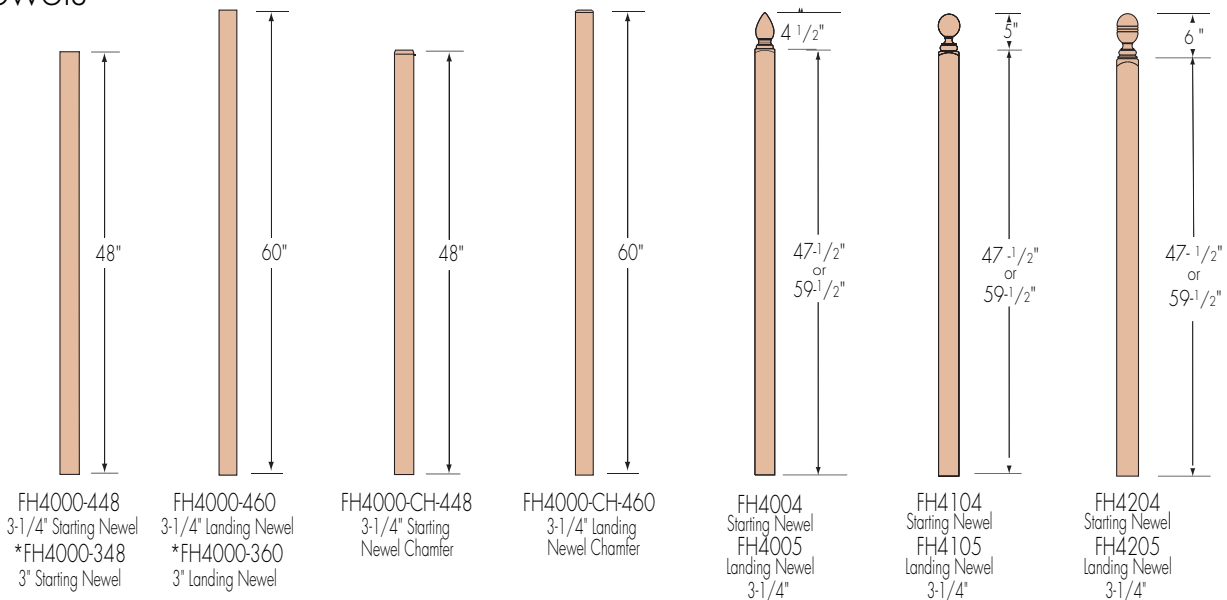
Handrail



Balusters



Newels



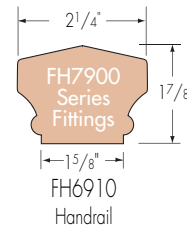
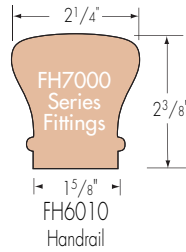
Hemlock Fittings

Matching Handrail/Fittings

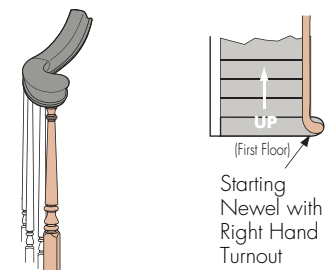
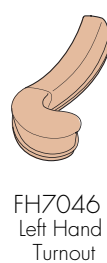
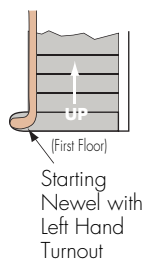
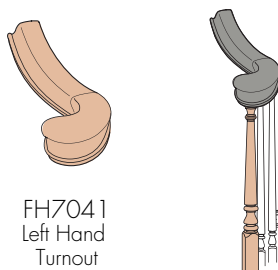
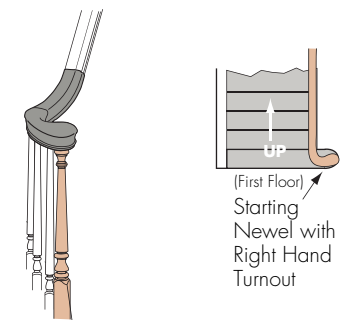
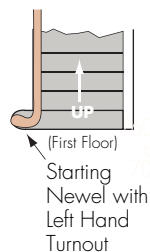
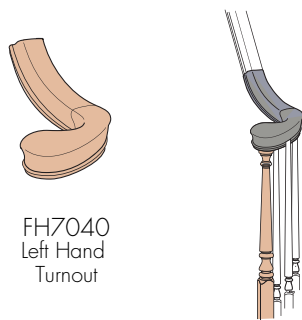
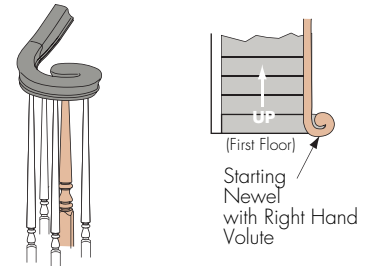
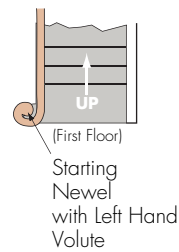
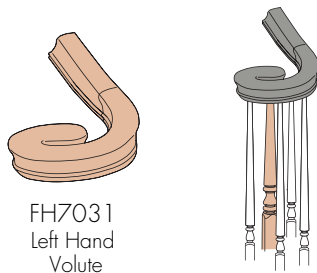
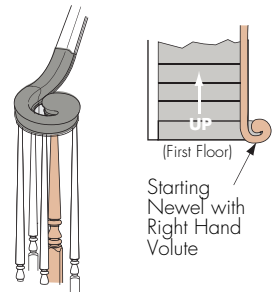
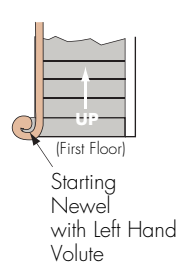
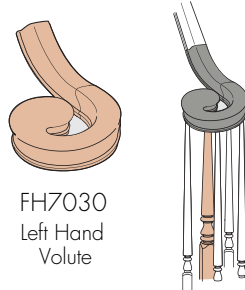
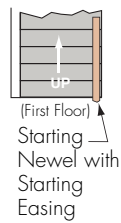
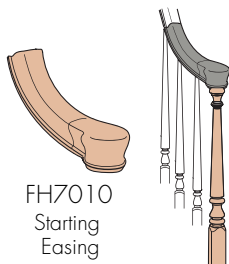
To match to Fitts Industries, Inc. handrail profiles to Fitts Industries, Inc. fittings, simply key off of the second digit of the handrail profile and the last two digits of the fitting part number

FH6010 Handrail = FH70__ Fitting

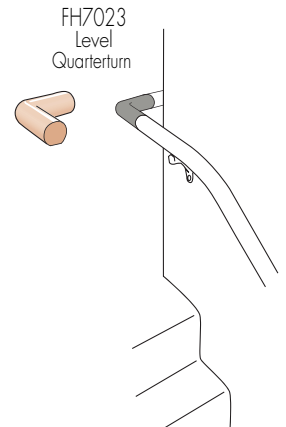
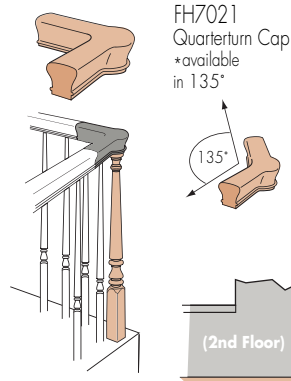
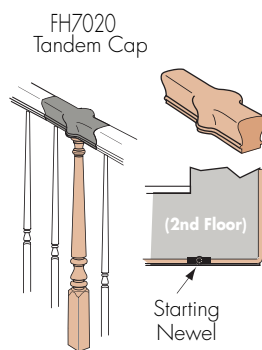
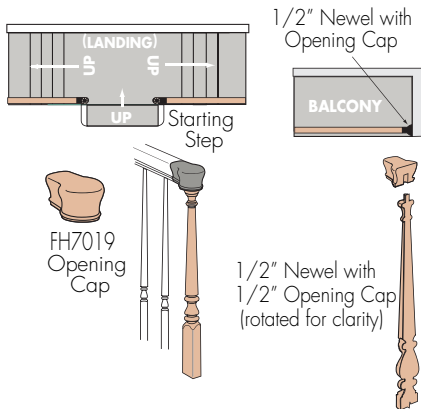
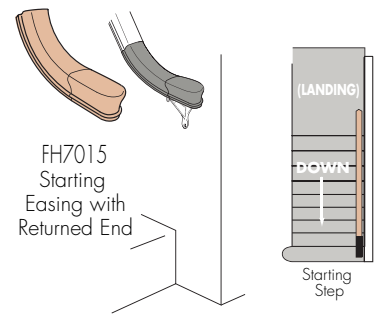
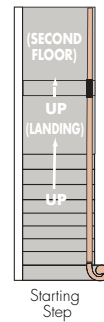
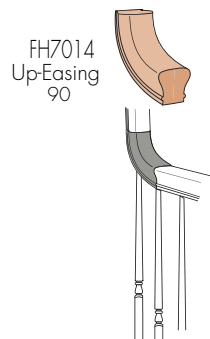
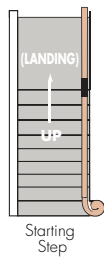
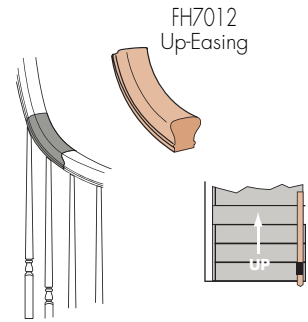
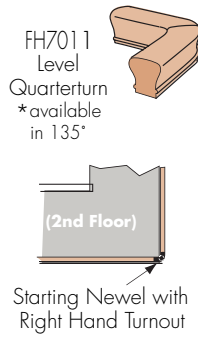
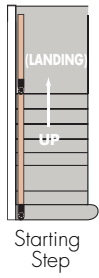
FH6910 Handrail = FH79__ Fitting



Starting Fittings



Transitional Fittings



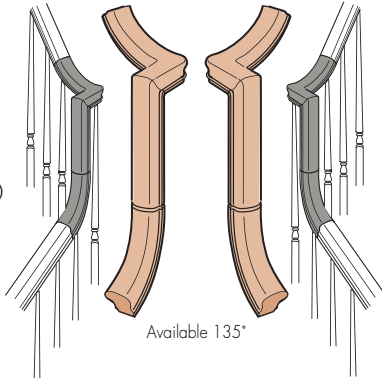
Gooseneck Fittings

*Note: For increased stability, the use of a newel under all Gooseneck Fittings is strongly recommended.

*On 2-rise Goosenecks bottom UpEasing is unattached for adjustment in the field.



FH7050
Left Hand
2-Rise
No Cap



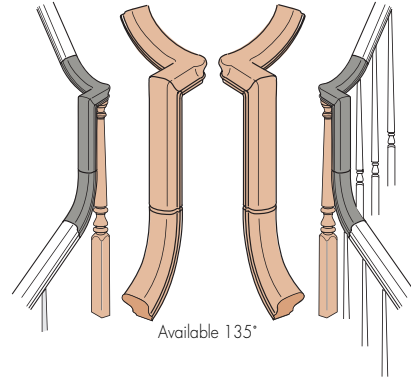
Available 135°



FH7055
Right Hand
2-Rise
No Cap



FH7060
Left Hand
2-Rise
with Cap



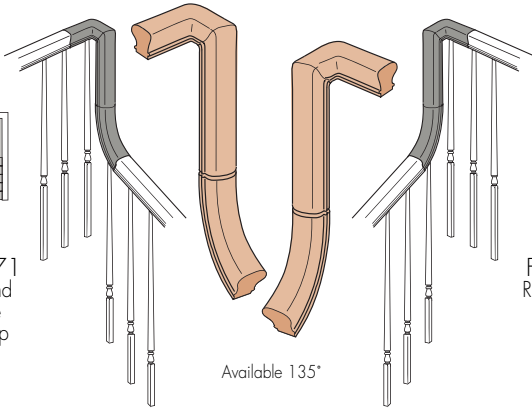
Available 135°



FH7065
Right Hand
2-Rise
with Cap



FH7071
Left Hand
2-Rise
no Cap



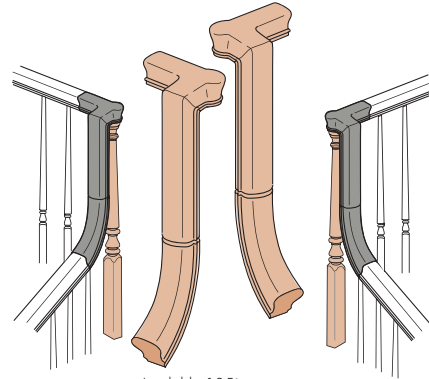
Available 135°



FH7076
Right Hand
2-Rise
no Cap



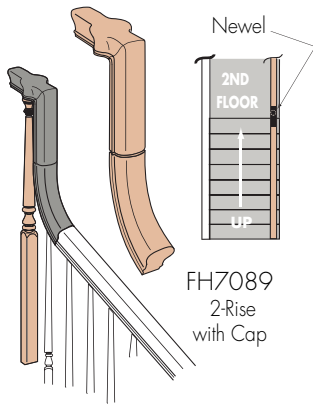
FH7081
Left Hand
2-Rise
with Cap



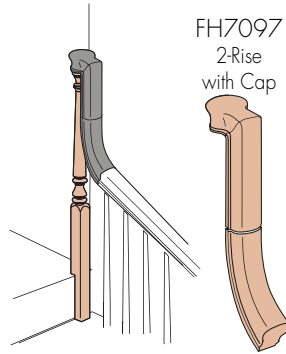
Available 135°



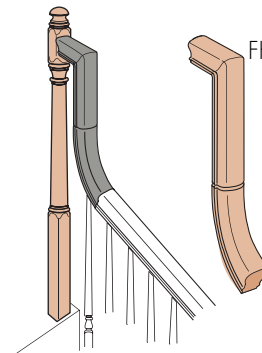
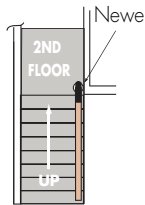
FH7086
Right Hand
2-Rise
with Cap



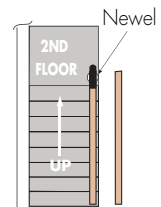
FH7089
2-Rise
with Cap



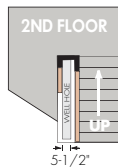
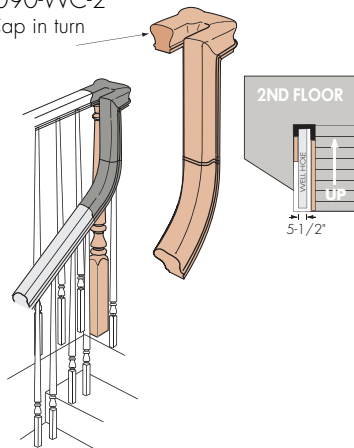
FH7097
2-Rise
with Cap



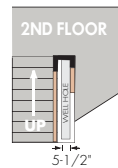
FH7099
2-Rise



FH7090-WC-2
*Cap in turn

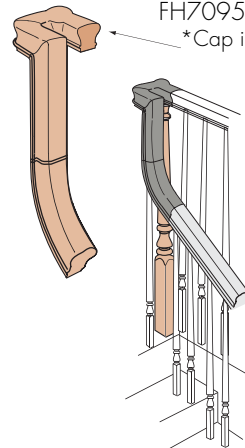


5-1/2"



5-1/2"

FH7095-WC-2
*Cap in turn



Treads, Risers, Starting Steps & Tread Caps

All Fitts Industries, Inc. Starting Steps Include:

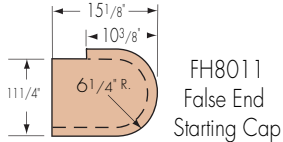
- Radius Shoe and Cove Mould
- Straight Shoe & Cove Mould
- The Option to Specify Paint Grade or Stain Grade Risers
- Reversible Single Bullnose

Specifications:

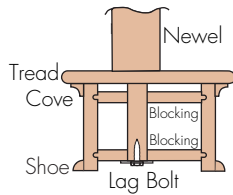
- Starting Step Tread – 1" x 11-1/32"
- Riser – 3/4" x 7" (Overall Rise 8" w/Tread)
- Widths – are specified to outside of finished stringers, taking into consideration skirt board, sheetrock and tread brackets if applicable.

False End Starting Step

FH8011 — Use with FH6010, Handrail with Turnout or Volute when carpeting the stair.

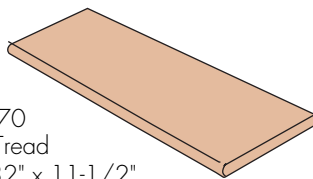
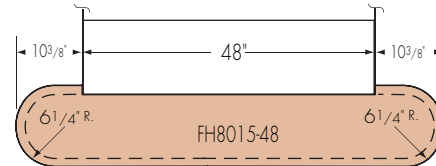
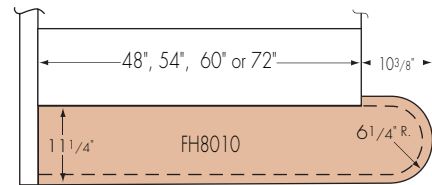


FH8011
False End
Starting Cap

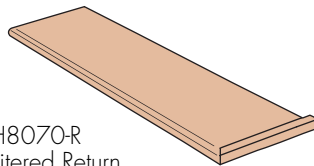


Starting Step
Cross Section

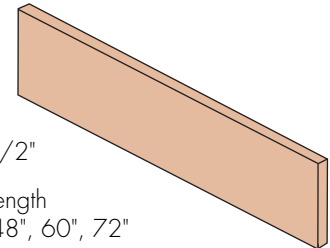
FH8010 and FH8015-48
Use with FH6010, with Turnout and Volutes.



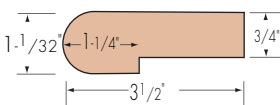
FH8070
Plain Tread
1-1/32" x 11-1/2"
Standard Lengths
36", 42", 48", 60", 72"



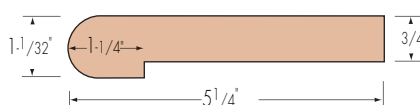
FH8070-R
Mitered Return
1-1/32" x 11-1/2"
Standard Lengths
36", 42", 48", 60", 72"



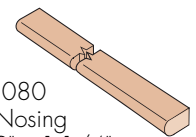
FH8075
Riser
3/4" x 7-1/2"
3/4" x 8"
Standard Length
36", 42", 48", 60", 72"



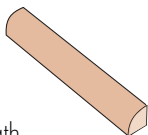
FH8090-3 1/2"
Landing Tread
3-1/2" x 5-1/4"
Random Length



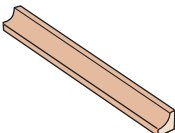
FH8090-5 1/4"



FH8080
Linear Nosing
1-1/32" x 1-1/4"
Random Length
Nosing

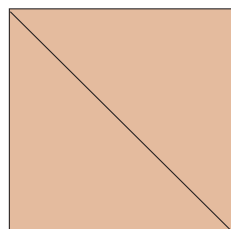


FH8422
Shoe Mould
1/2" x 3/4"
Random Length
Base Trim

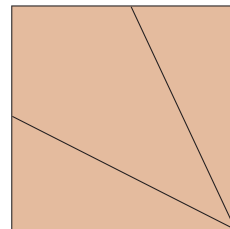


FH8095
Cove Mould
3/4" x 3/4"
Random Length

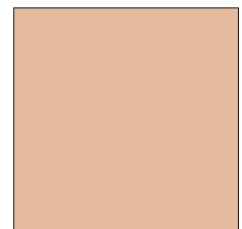
Winder Treads & Platform



2-Piece Winder Tread

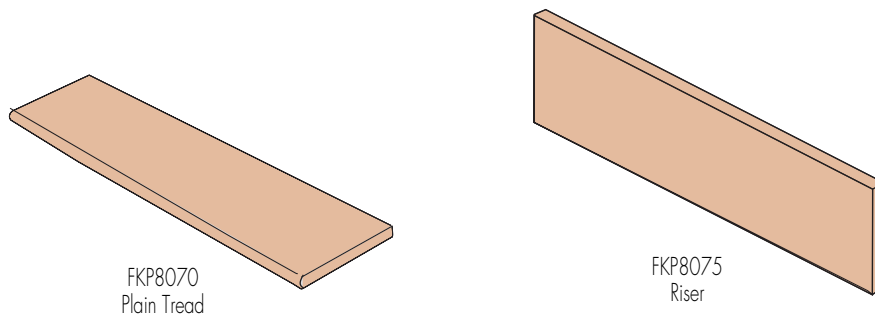
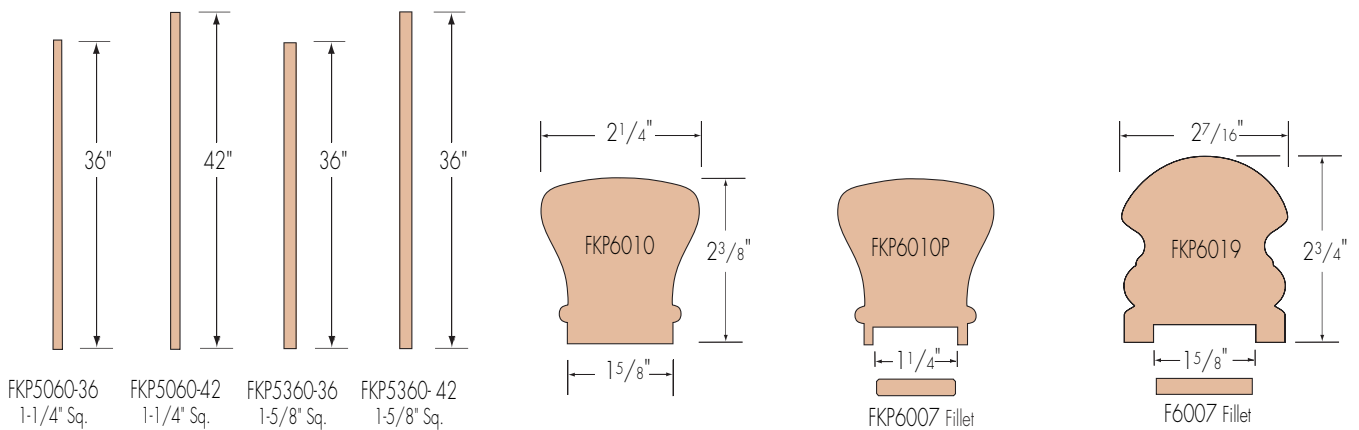
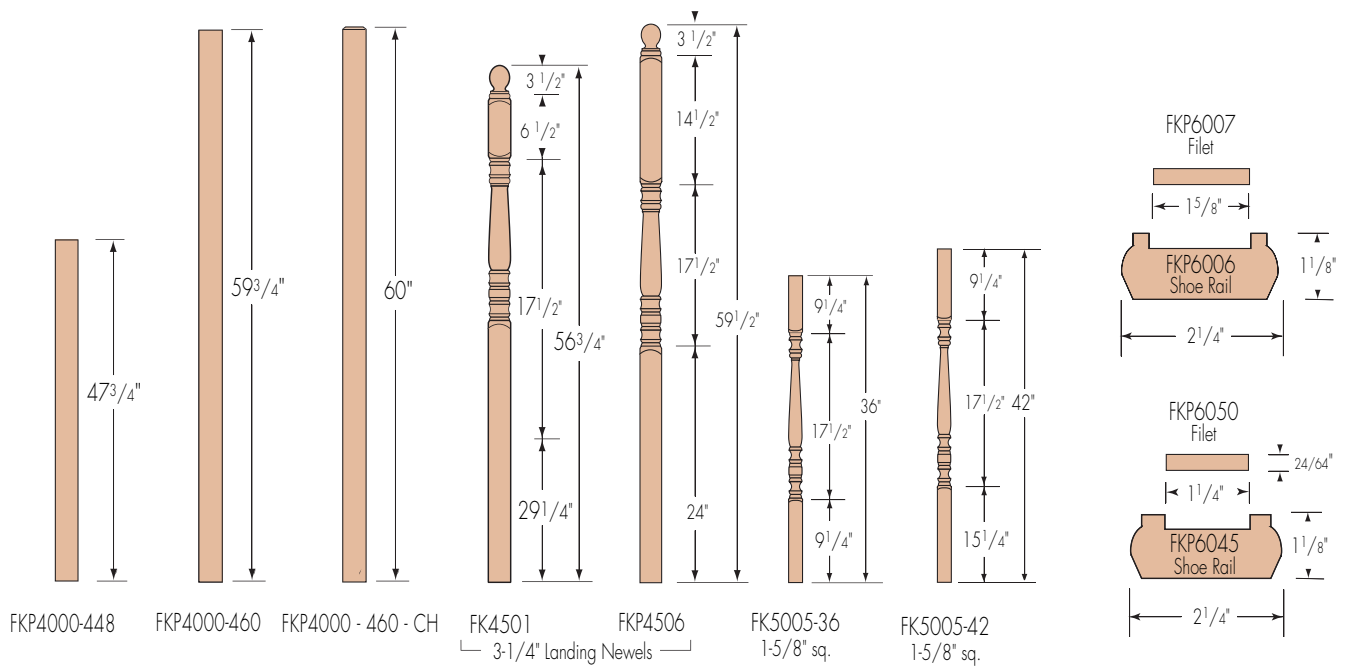


3-Piece Winder Tread



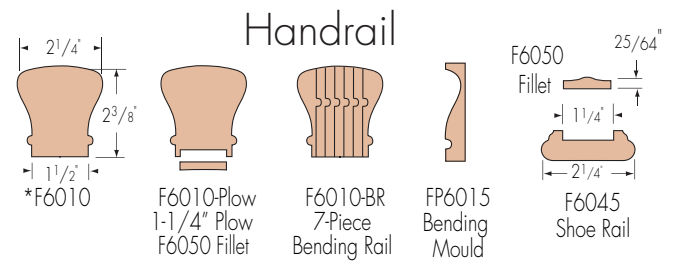
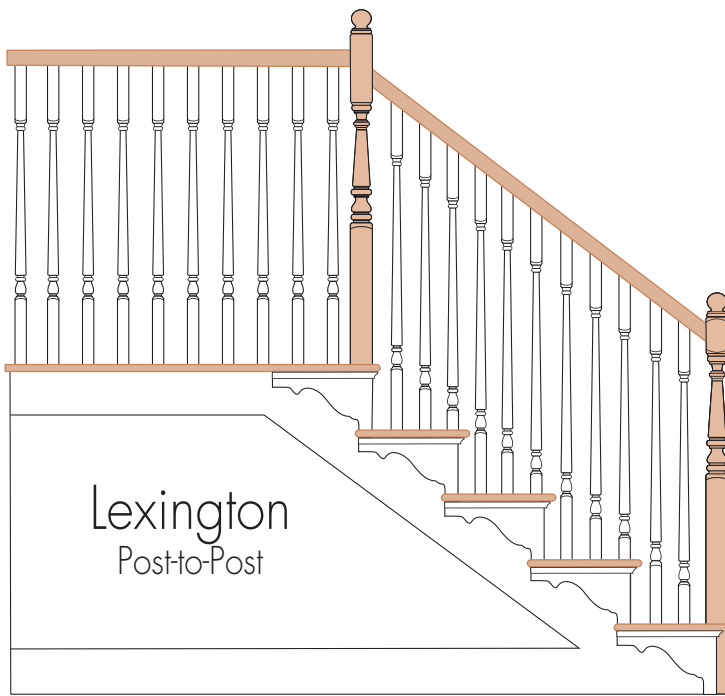
Platform

Knotty Pine

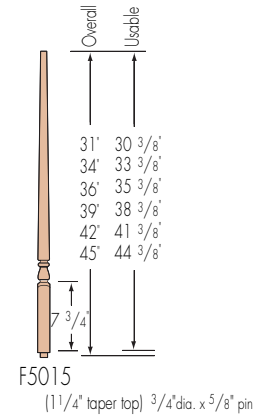




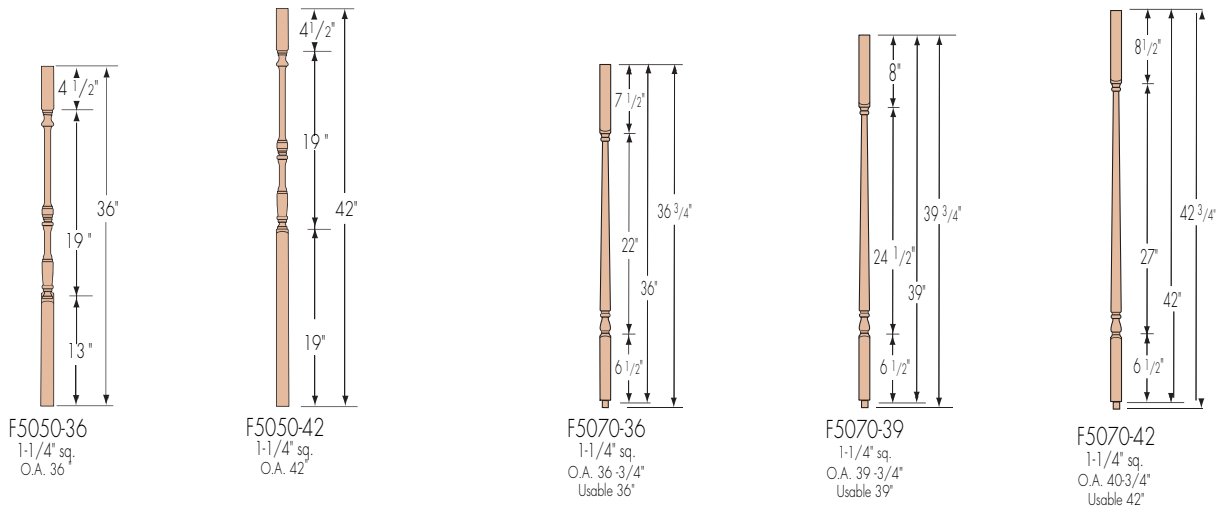
Hardwood Stair Parts



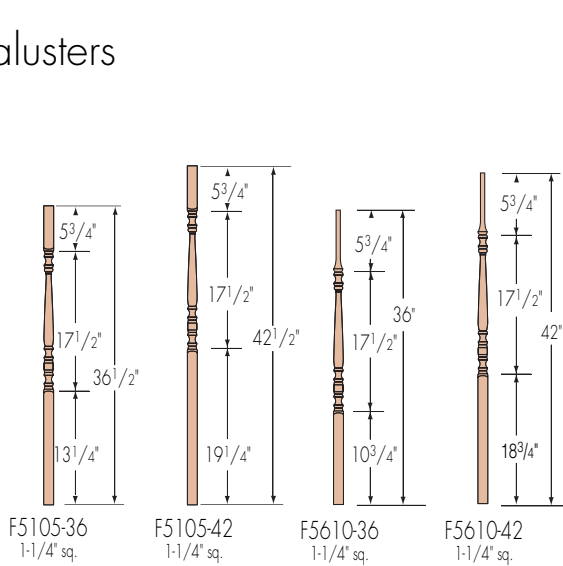
Balusters



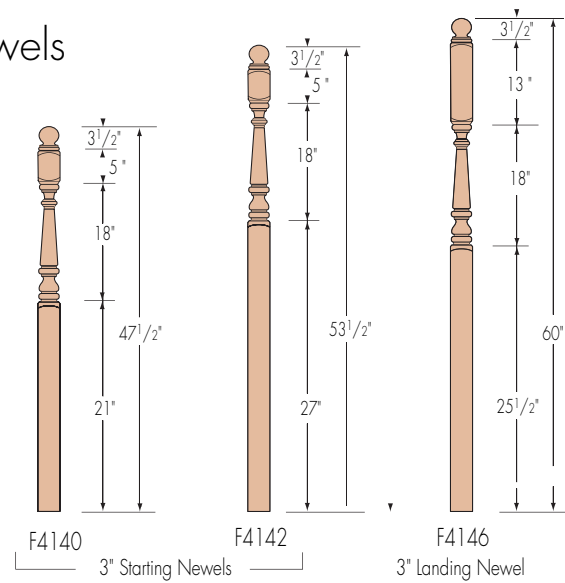
Balusters



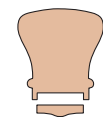
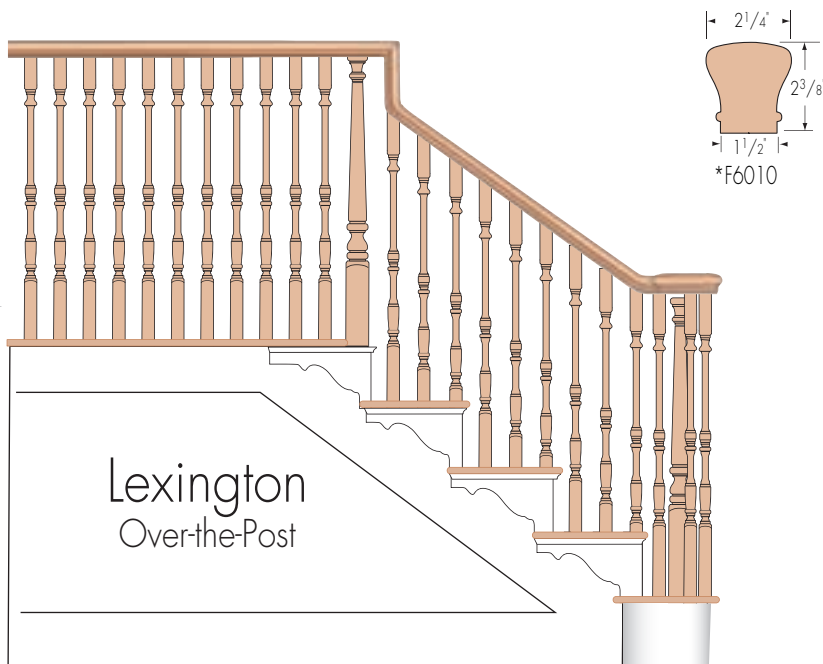
Balusters



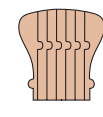
Newels



Handrail



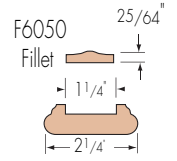
F6010-Plow
1-1/4\" Plow
F6050 Fillet



F6010-BR
7-Piece
Bending Rail

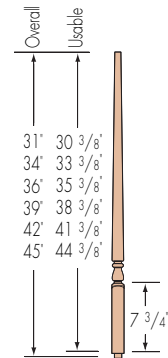


FP6015
Bending
Mould



F6045
Shoe Rail

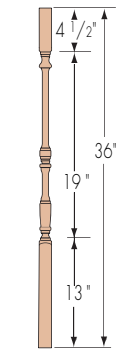
Balusters



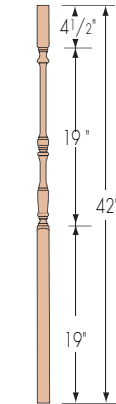
F5015

(1 1/4\" taper top) 3/4\" dia. x 5/8\" pin

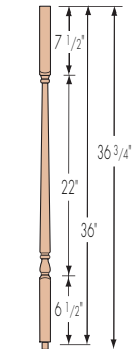
Balusters



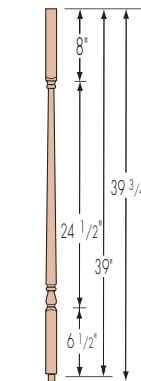
F5050-36
1-1/4\" sq.
O.A. 36"



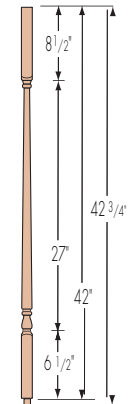
F5050-42
1-1/4\" sq.
O.A. 42"



F5070-36
1-1/4\" sq.
O.A. 36-3/4\"
Usable 36"

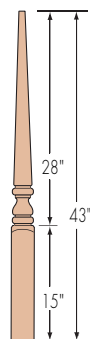


F5070-39
1-1/4\" sq.
O.A. 39-3/4\"
Usable 39"

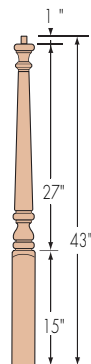


F5070-42
1-1/4\" sq.
O.A. 40-3/4\"
Usable 42"

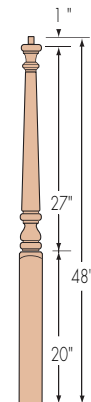
Newels



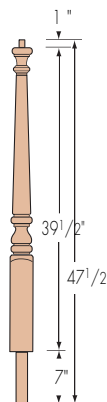
F4020
Starting
Newel 3\" Sq.



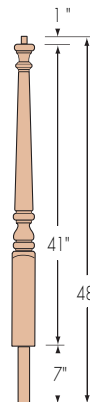
F4010
Starting
Newel 3\" Sq.



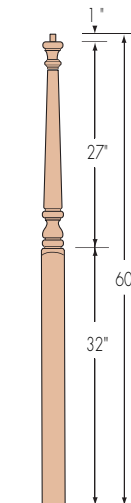
F4010-48
Starting
Newel 3\" Sq.



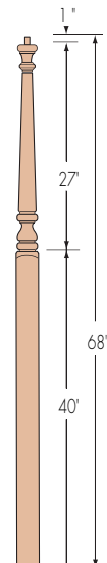
F4013
Volute
Starting 3\" Sq.



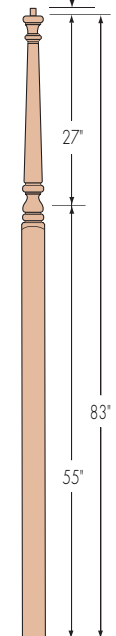
F4014
Turnout
Starting 3\" Sq.



F4015

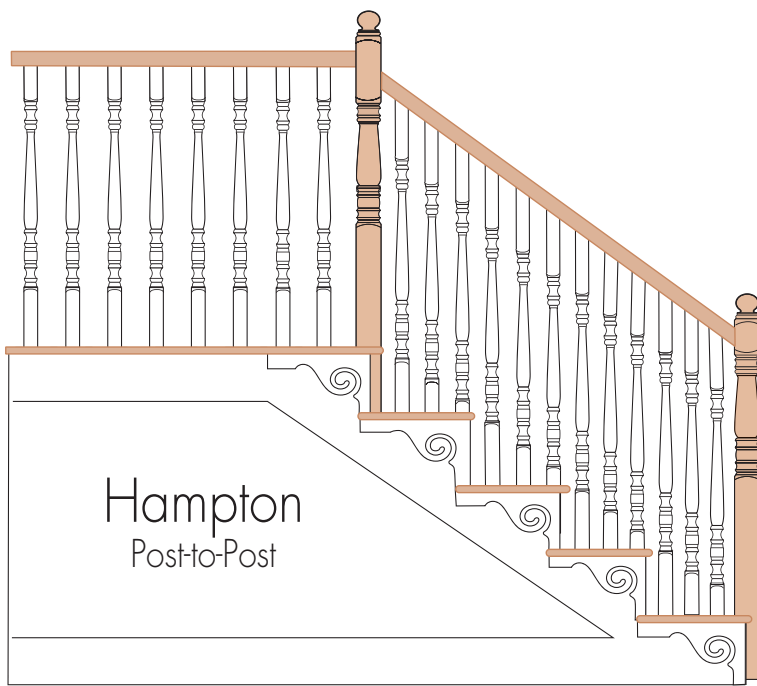


F4017

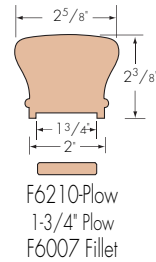
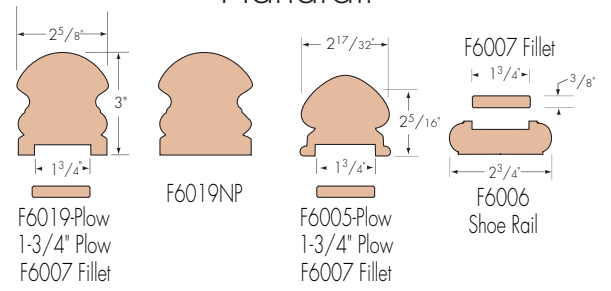


F4018

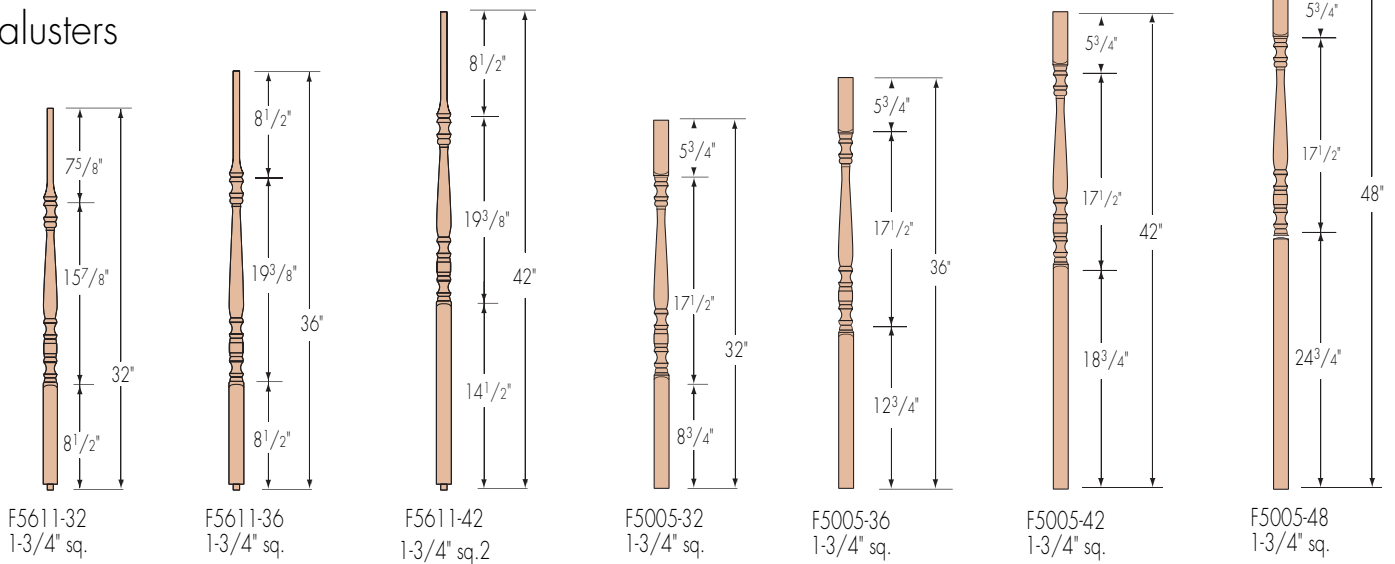
Landing Newels
3\" Sq.



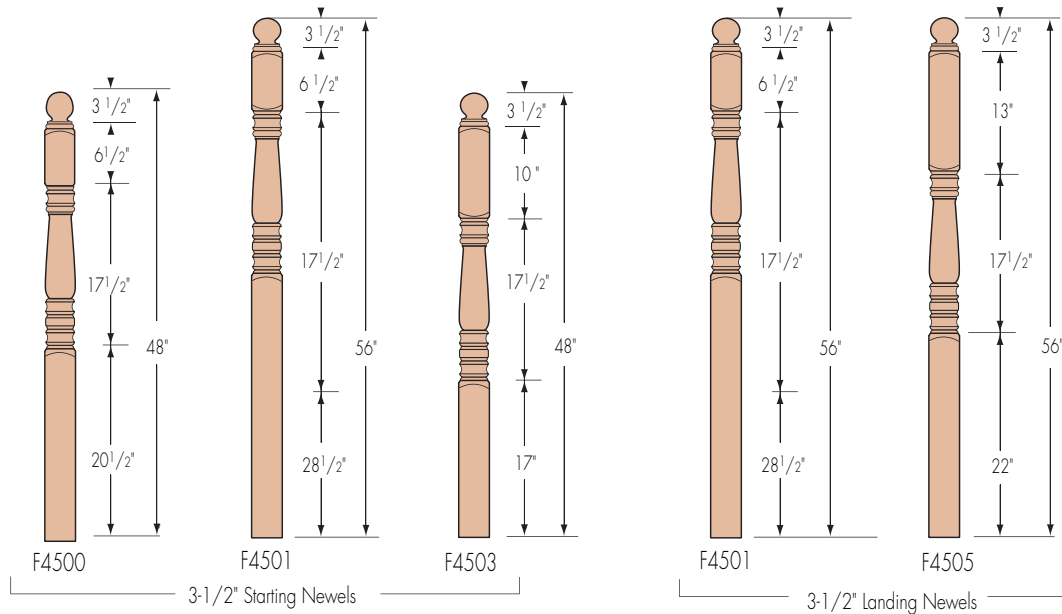
Handrail

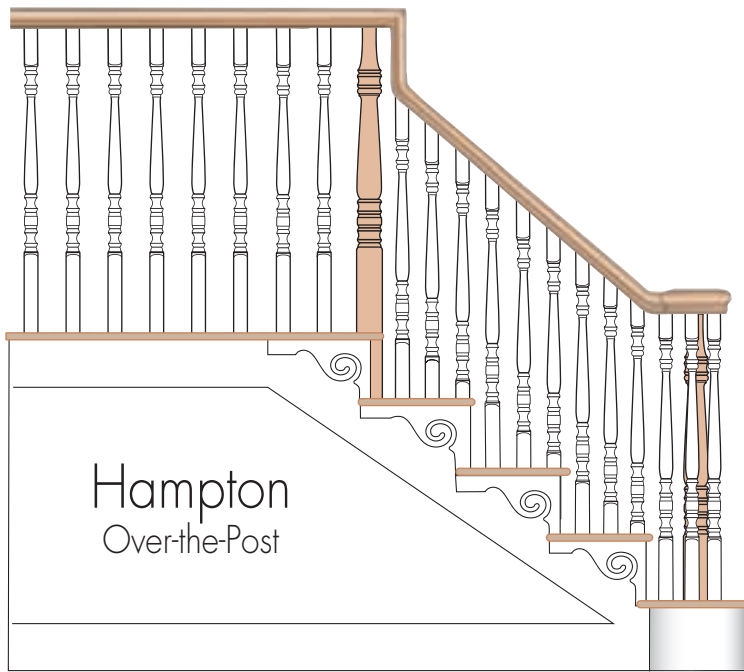


Balusters

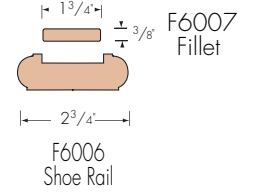
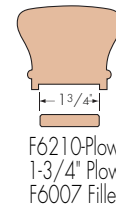
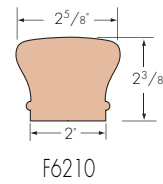


Newels

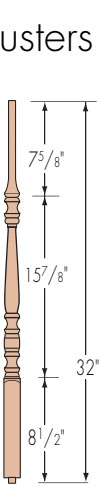




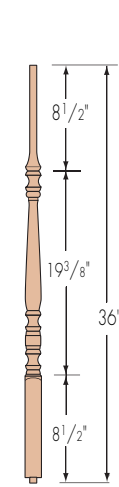
Handrail



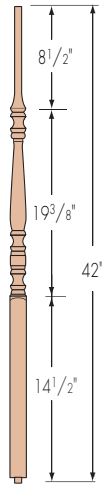
Balusters



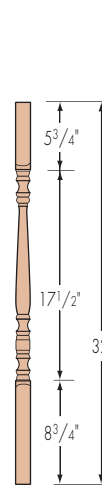
F5611-32
1-3/4" sq.



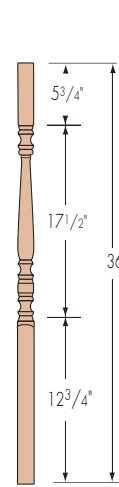
F5611-36
1-3/4" sq.



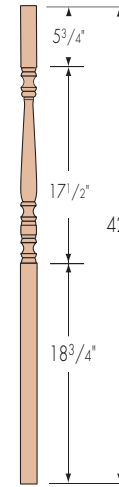
F5611-42
1-3/4" sq.



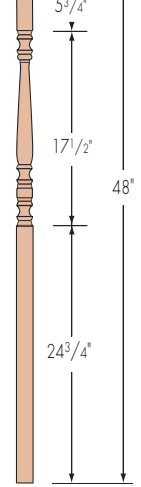
F5005-32
1-3/4" sq.



F5005-36
1-3/4" sq.

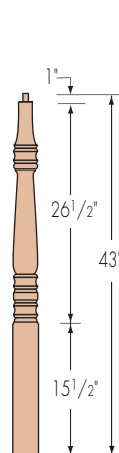


F5005-42
1-3/4" sq.

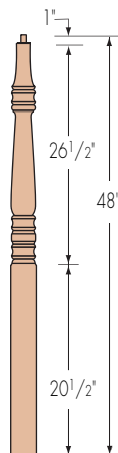


F5005-48
1-3/4" sq.

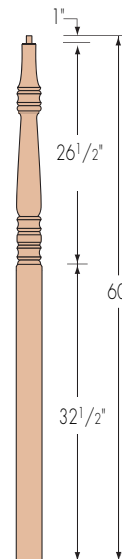
Newels



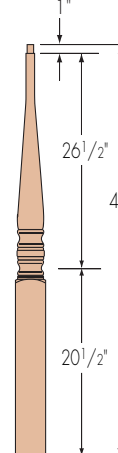
F4210
Starting Newel 3 1/2"



F4210-48
Starting Newel 3 1/2"

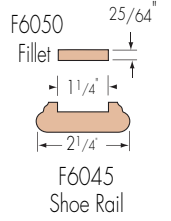
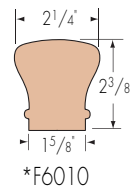


F4215
Landing Newel 3 1/2"

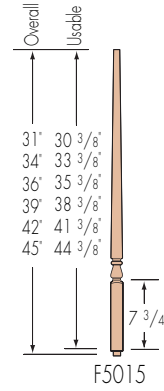


F4220
Starting Newel 3 1/2"

Handrail



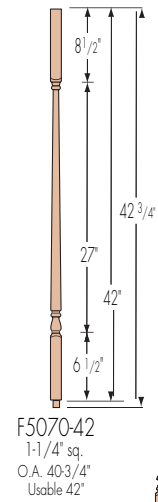
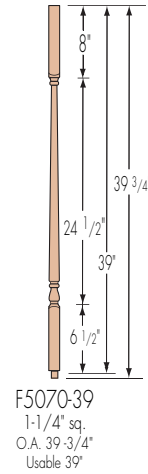
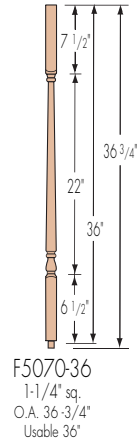
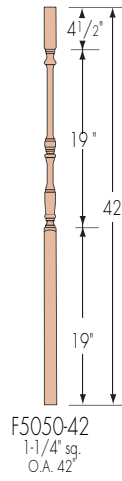
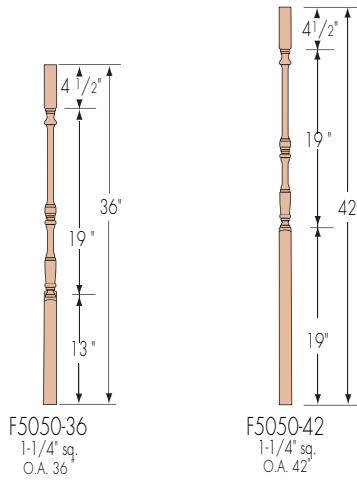
Balusters



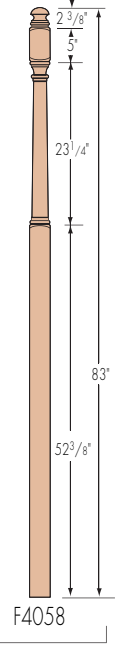
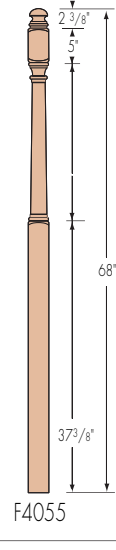
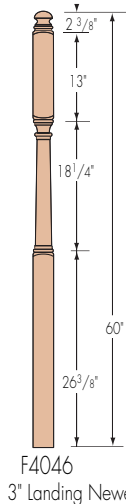
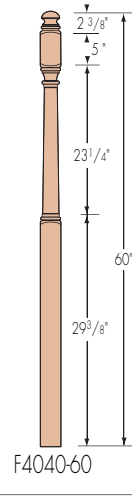
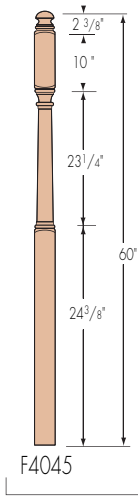
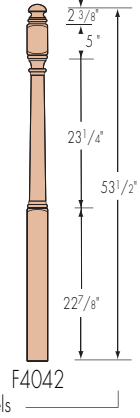
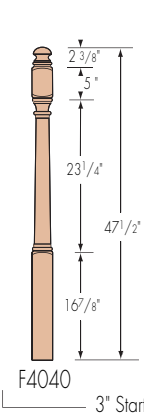
(1 1/4" taper top) 3/4" dia. x 5/8" pin

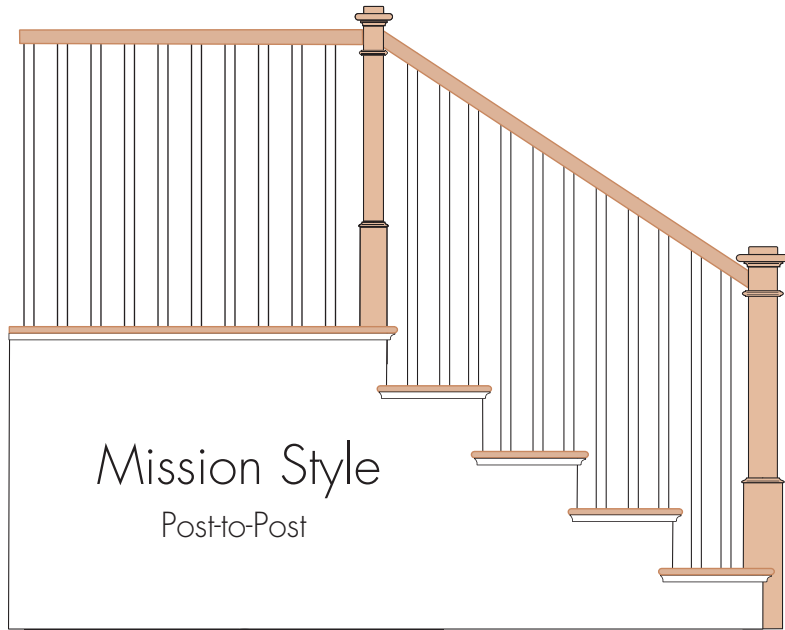
Traditional Post-to-Post

Balusters

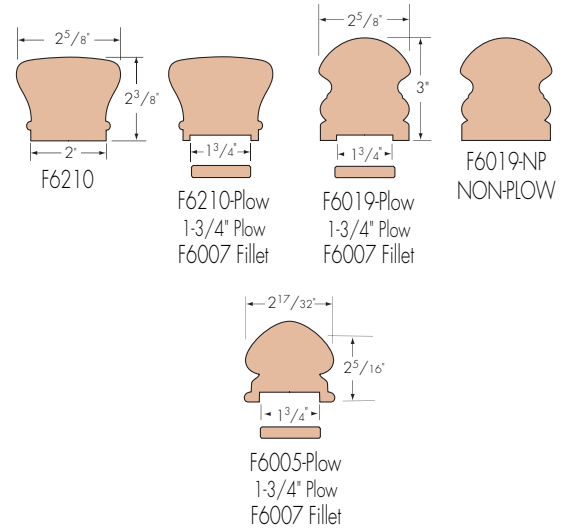


Newels

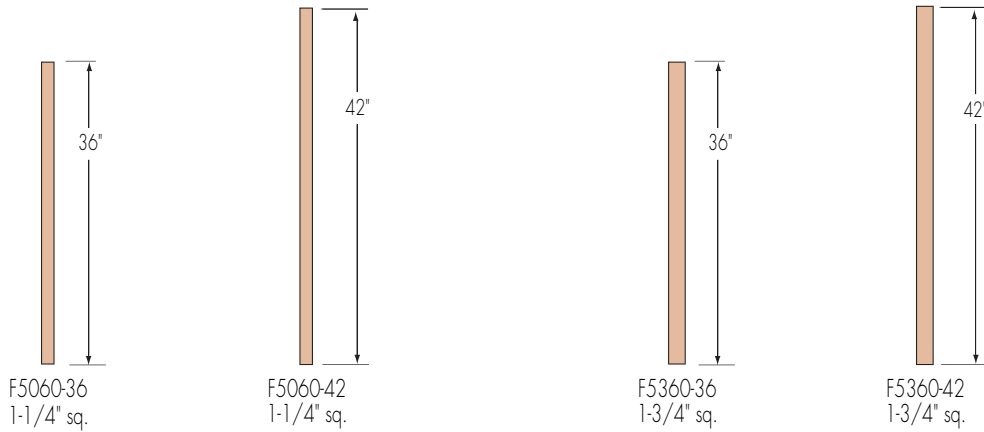




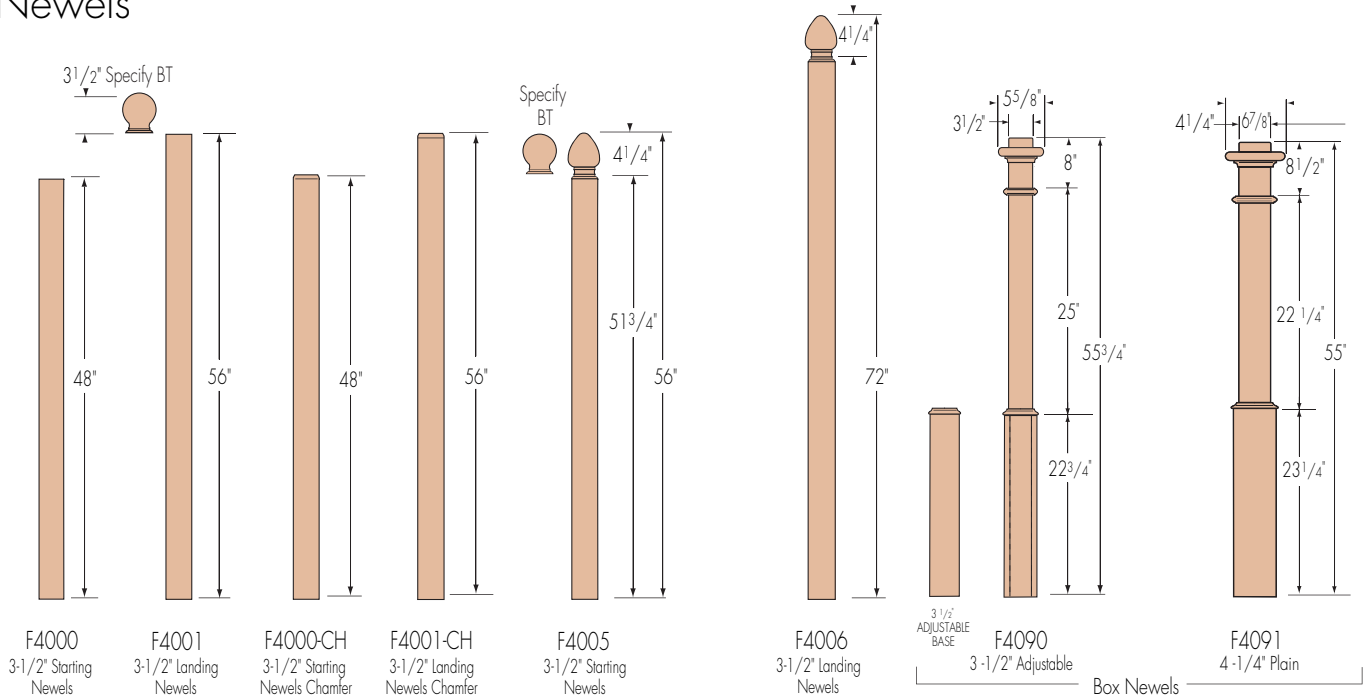
Handrail

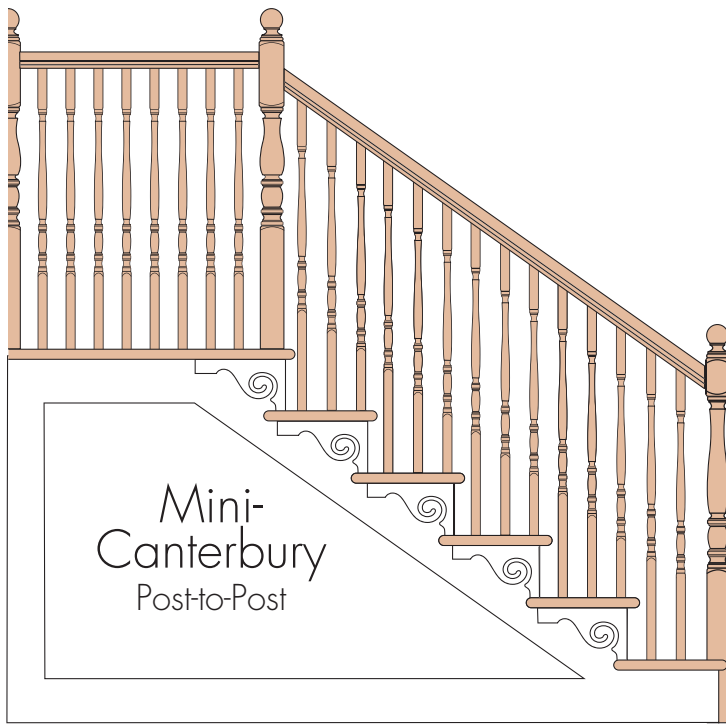


Balusters

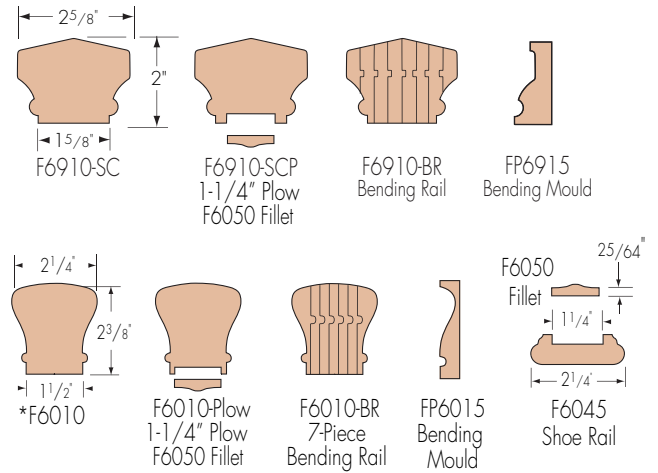


Newels

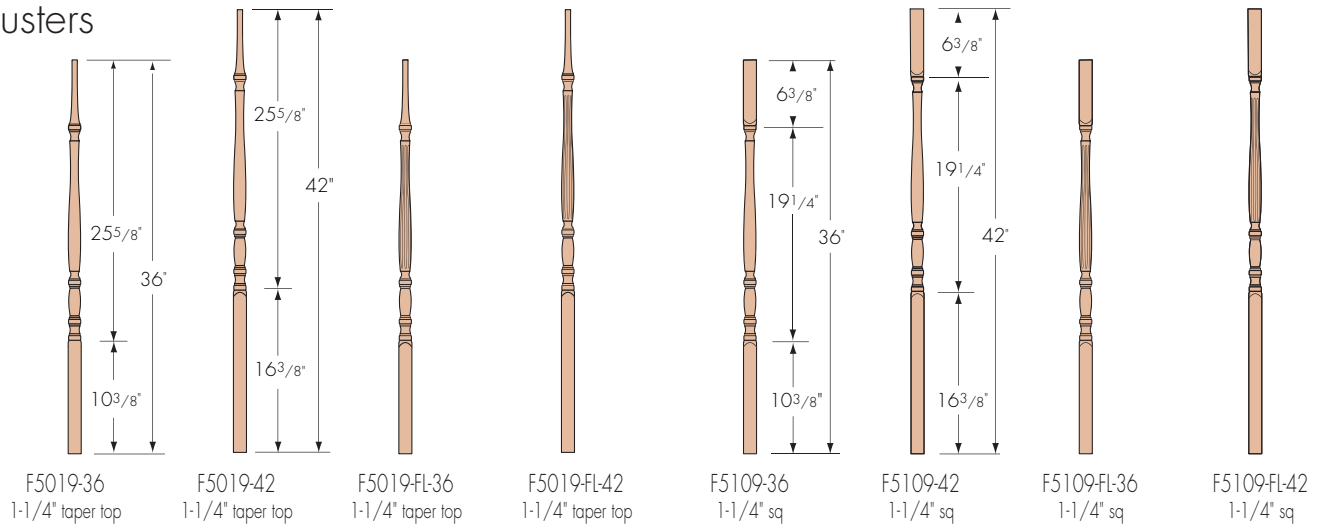




Handrail

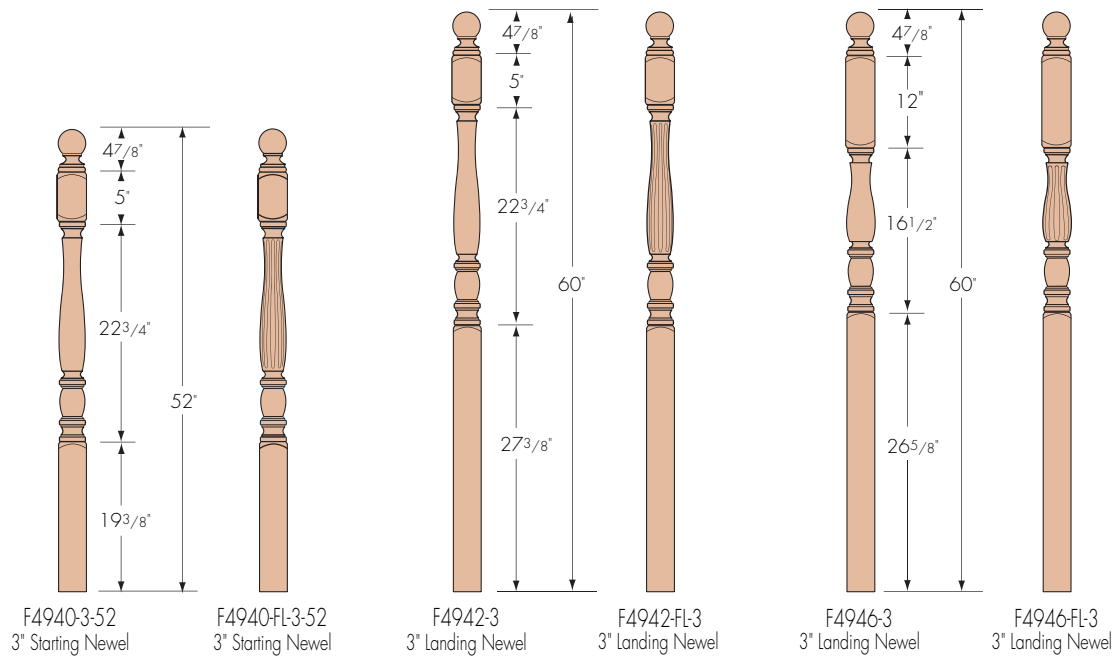


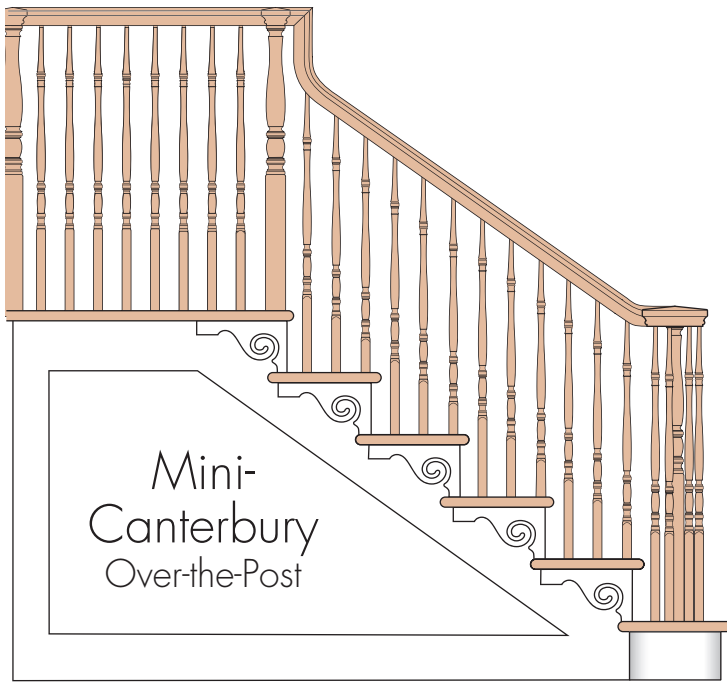
Balusters



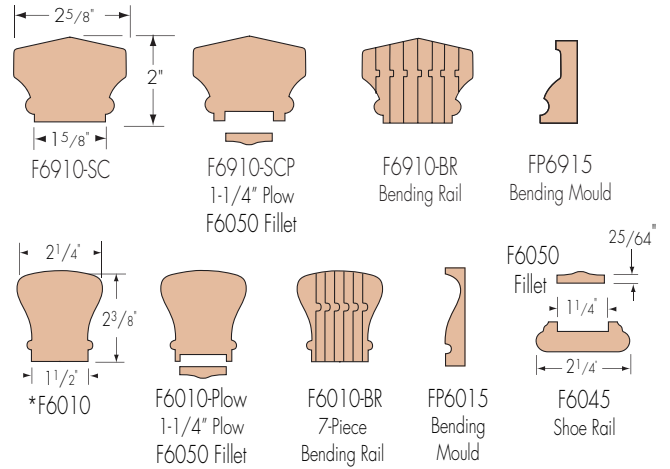
Newels

Specify "A" for Acorn Top

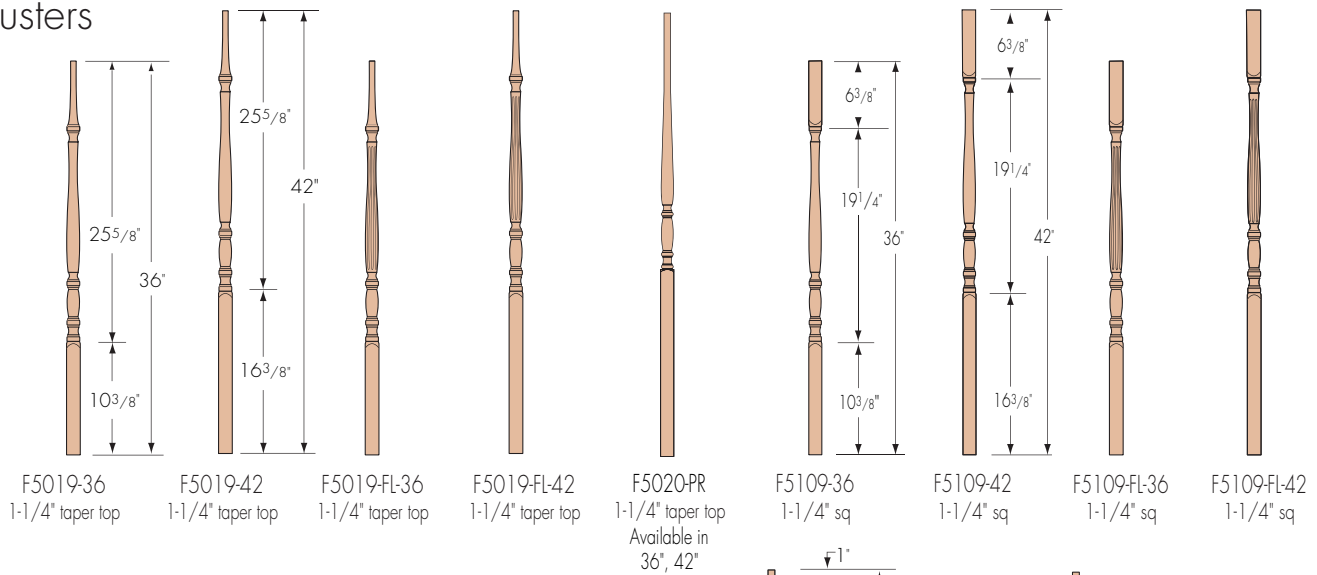




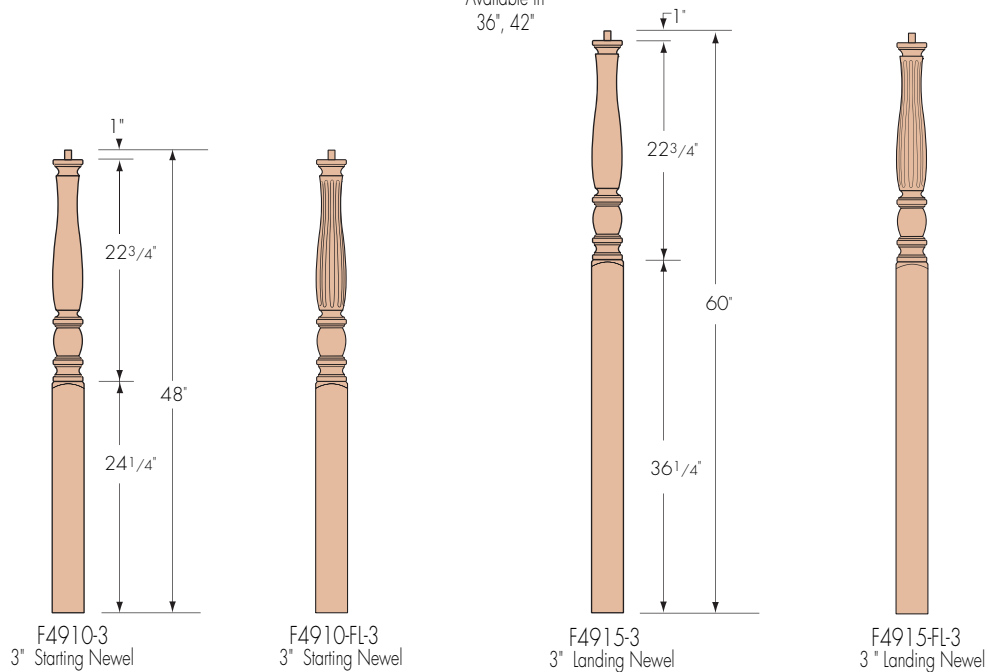
Handrail

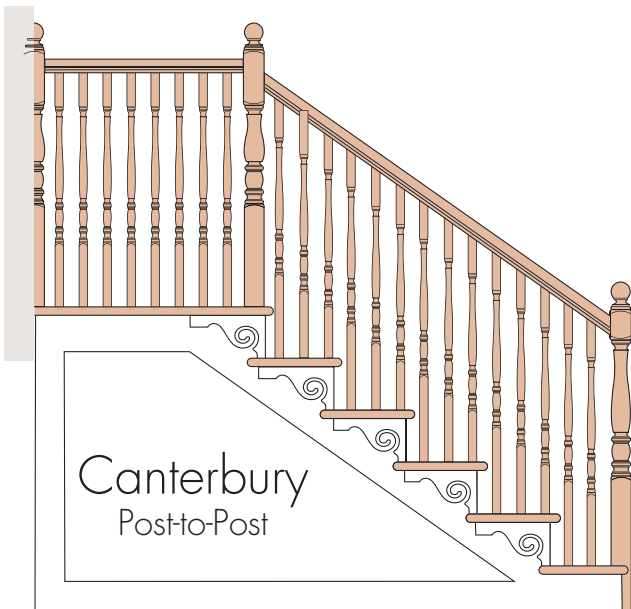


Balusters

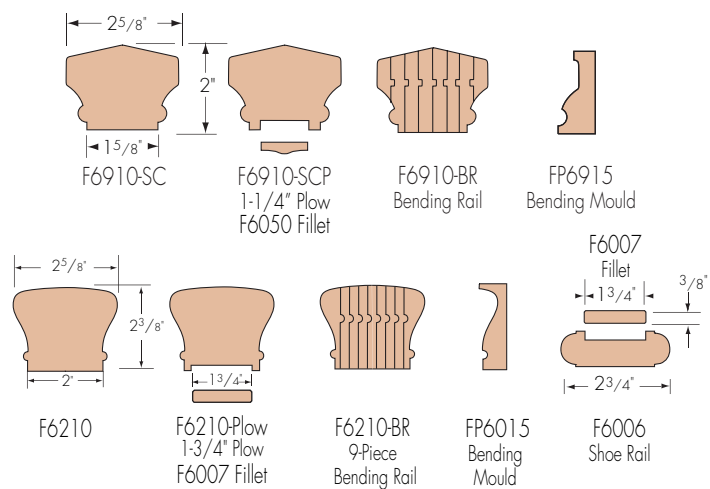


Newels

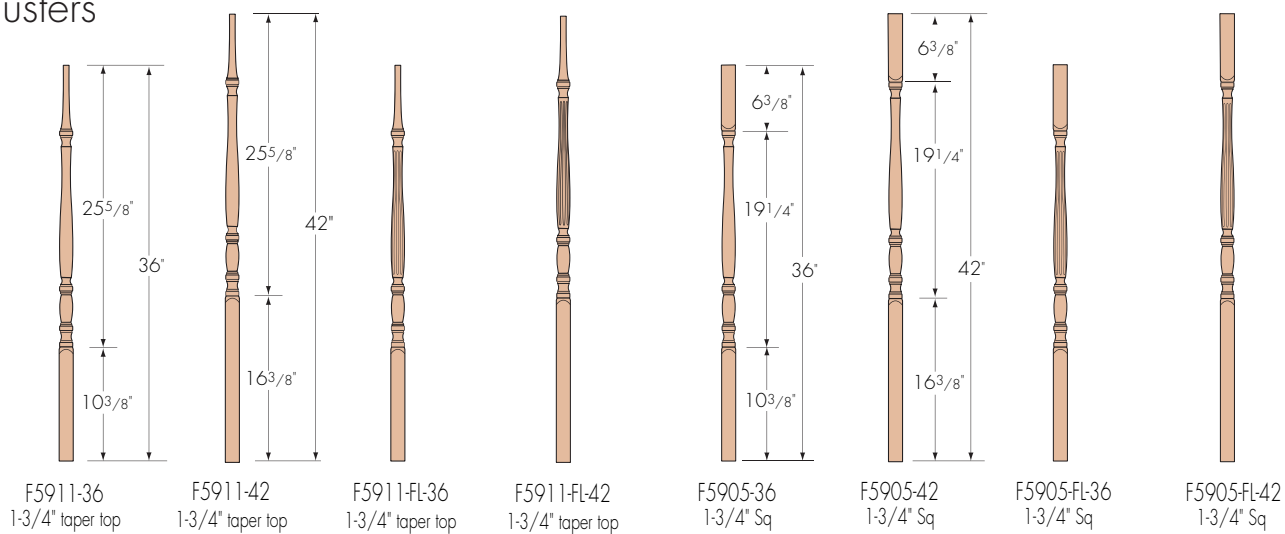




Handrail

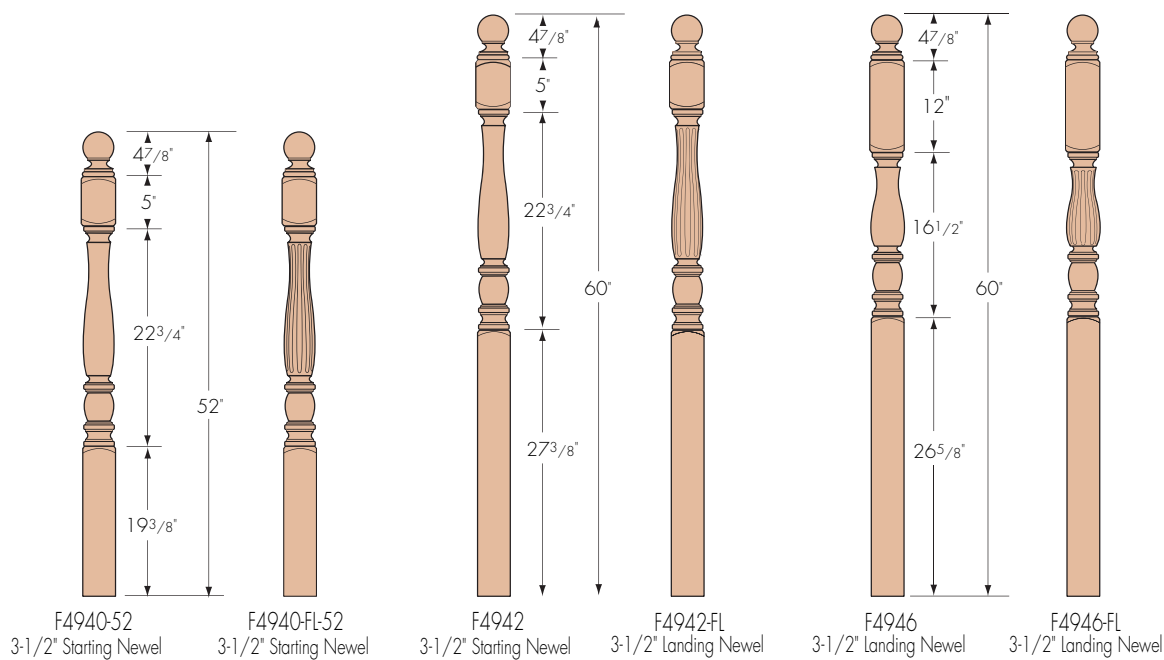


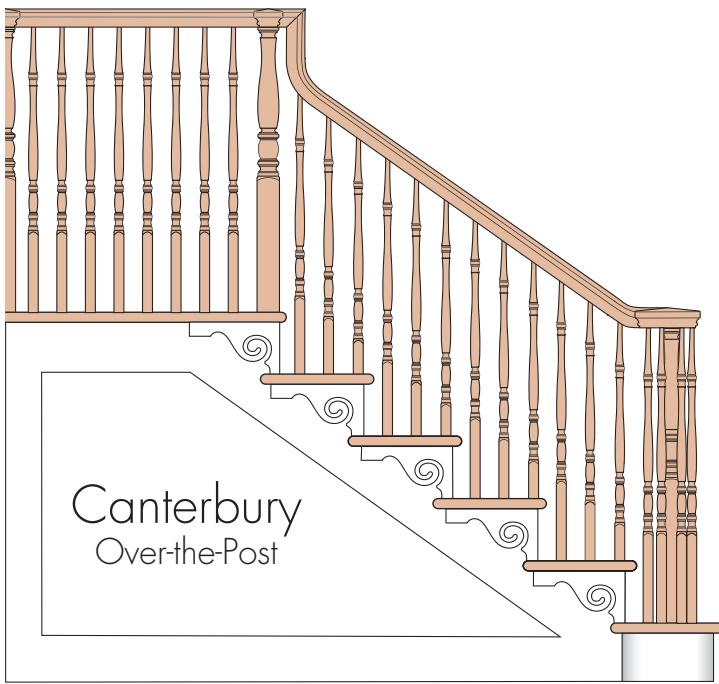
Balusters



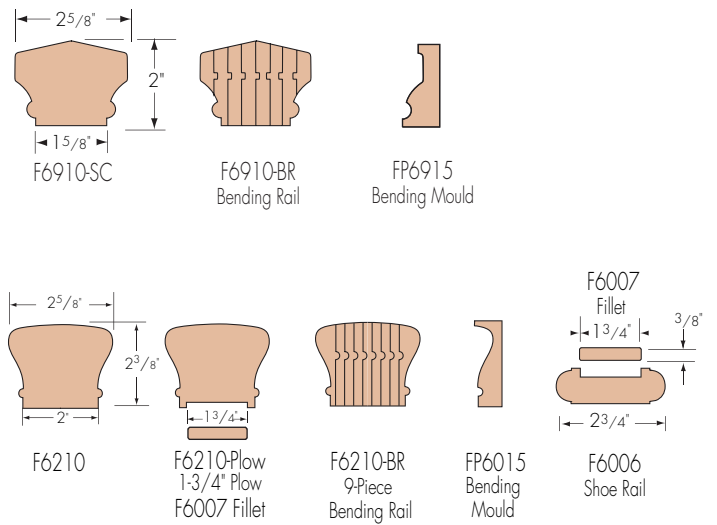
Newels

Specify "A"
for
Acorn Top

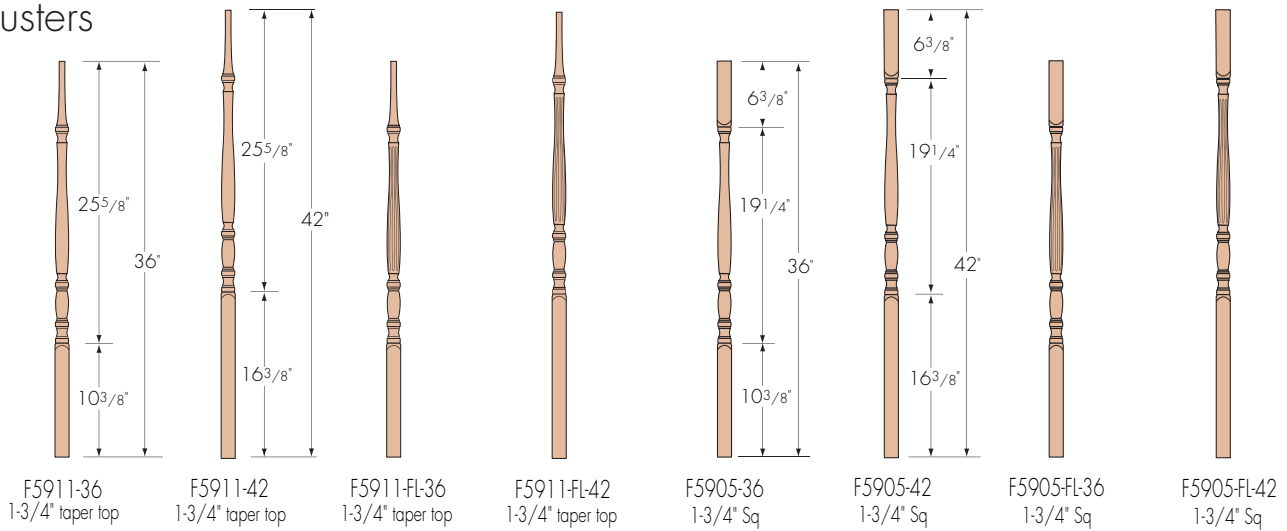




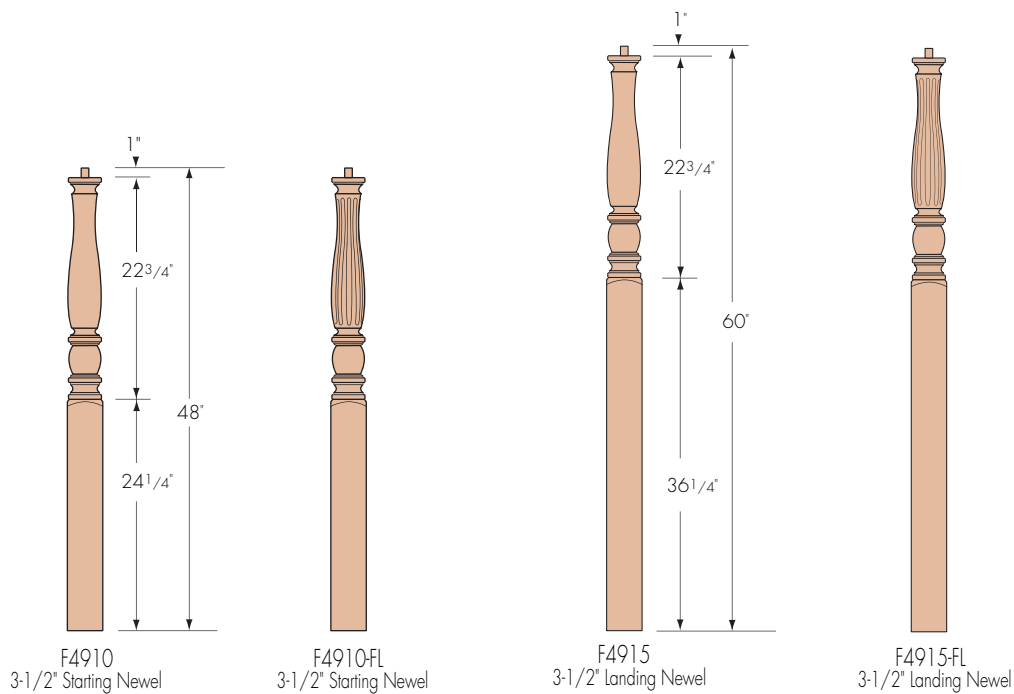
Handrail



Balusters



Newels



Hardwood Fittings

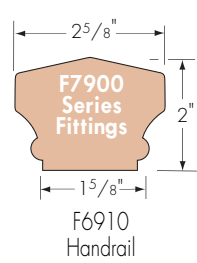
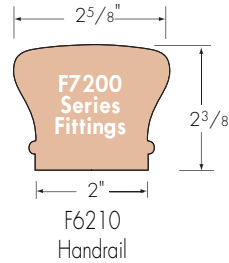
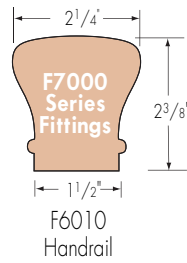
Matching Handrail/Fittings

To match to Fitts Industries, Inc. handrail profiles to Fitts Industries, Inc. fittings, simply key off of the second digit of the handrail profile and the last two digits of the fitting part number

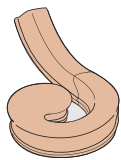
F6010 Handrail = F70__ Fitting

F6210 Handrail = F72__ Fitting

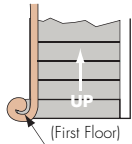
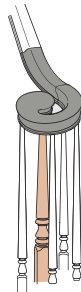
F6910 Handrail = F79__ Fitting



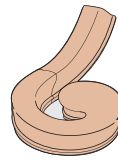
Starting Fittings



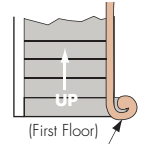
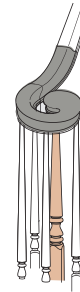
F7030
Left Hand
Volute



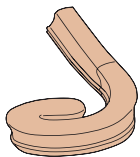
(First Floor)
Starting
Newel
with Left Hand
Volute



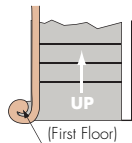
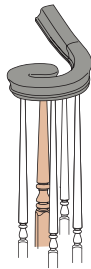
F7035
Right Hand
Volute



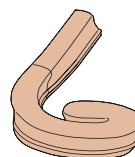
(First Floor)
Starting
Newel
with Right Hand
Volute



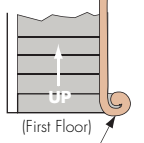
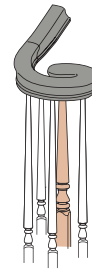
F7031
Left Hand
Volute



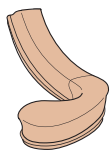
(First Floor)
Starting
Newel
with Left Hand
Volute



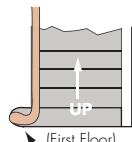
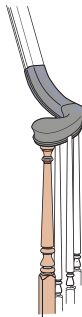
F7036
Right Hand
Volute



(First Floor)
Starting
Newel
with Right Hand
Volute



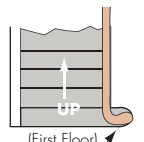
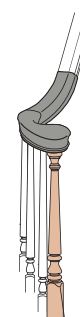
F7040
Left Hand
Turnout



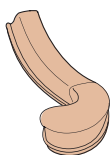
(First Floor)
Starting
Newel with
Left Hand
Turnout



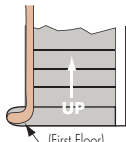
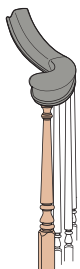
F7045
Right Hand
Turnout



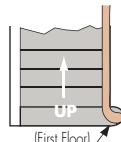
(First Floor)
Starting
Newel with
Right Hand
Turnout



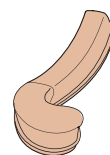
F7041
Left Hand
Turnout



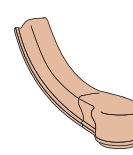
(First Floor)
Starting
Newel with
Left Hand
Turnout



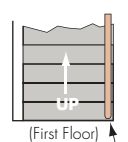
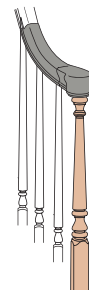
(First Floor)
Starting
Newel with
Left Hand
Turnout



F7046
Left Hand
Turnout

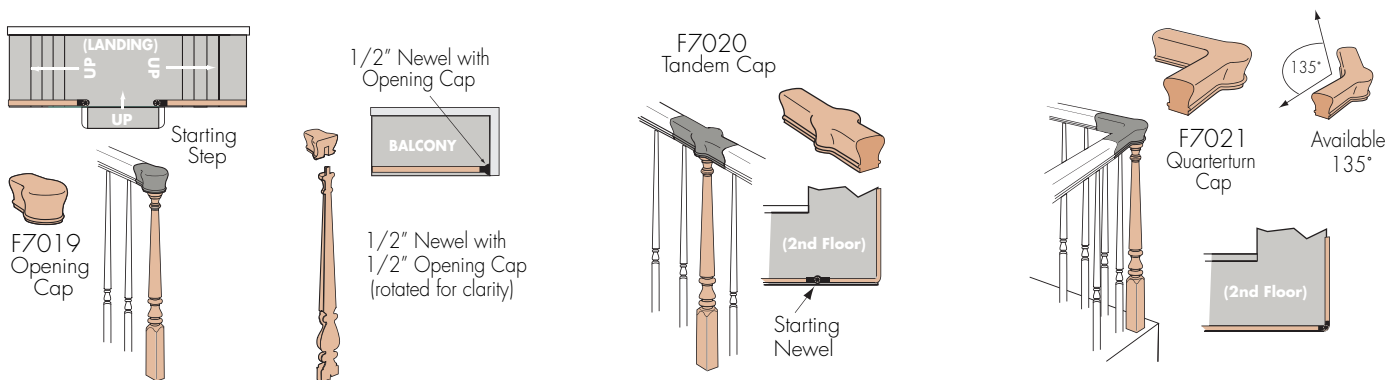
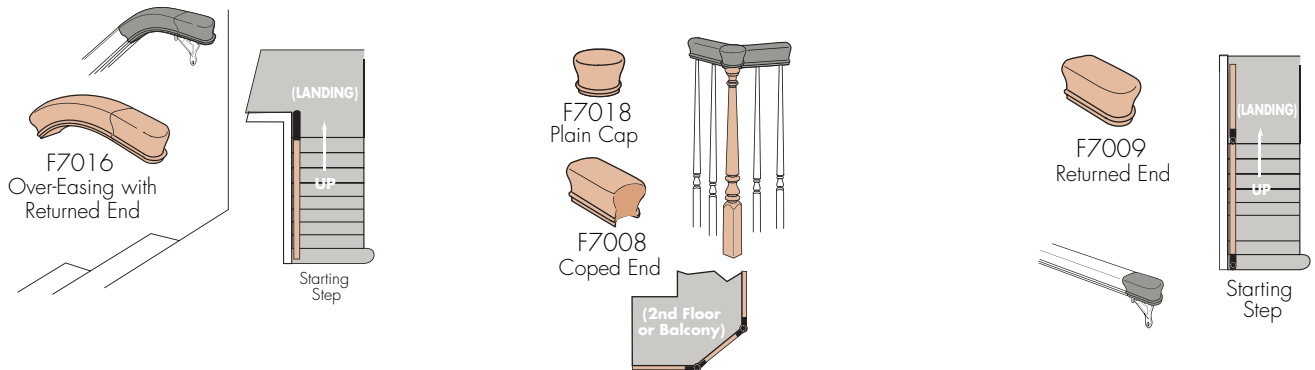
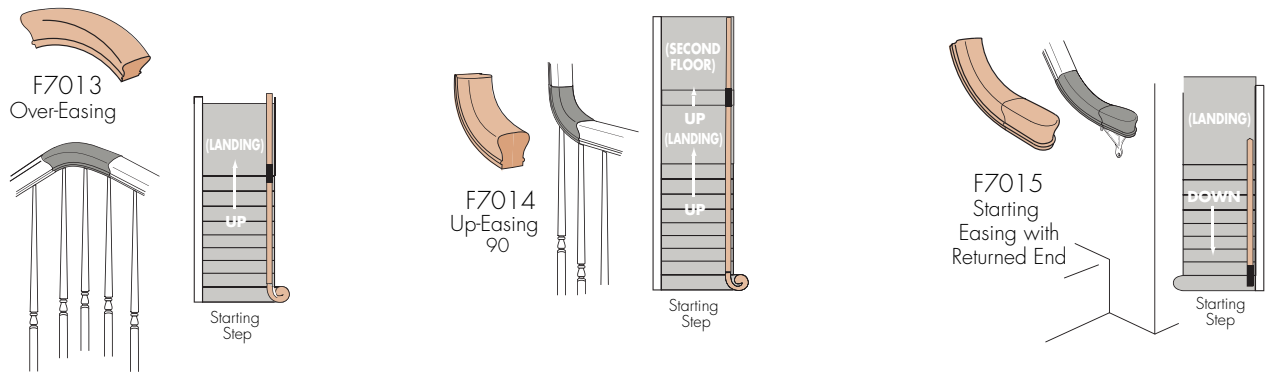
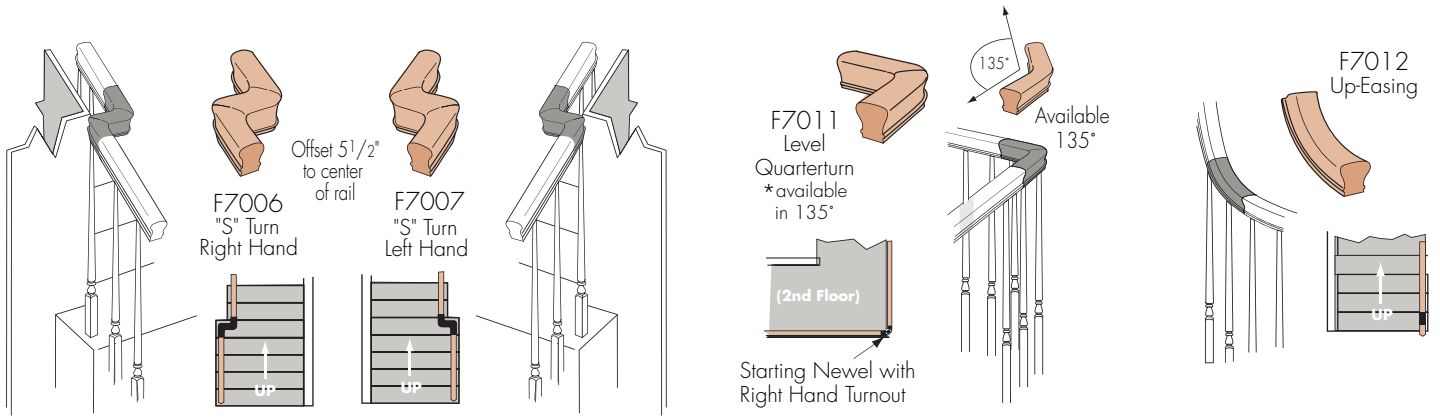


F7010
Starting
Easing



(First Floor)
Starting
Newel with
Starting
Easing

Transitional Fittings



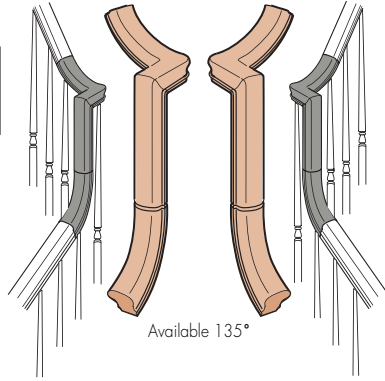
Gooseneck Fittings

*Note: For increased stability, the use of a newel under all Gooseneck Fittings is strongly recommended.

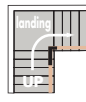
*On 2-rise Goosenecks bottom Up-Easing is unattached for adjustment in the field.



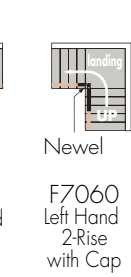
F7050
Left Hand
2-Rise
No Cap



Available 135°

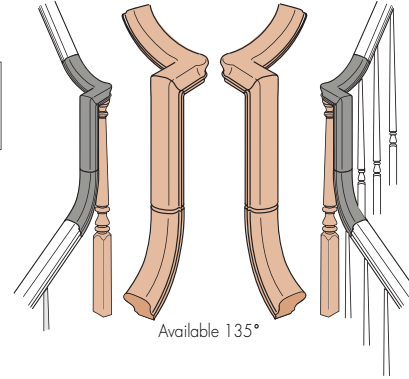


F7055
Right Hand
2-Rise
No Cap

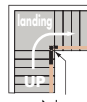


Newel

F7060
Left Hand
2-Rise
with Cap

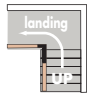


Available 135°

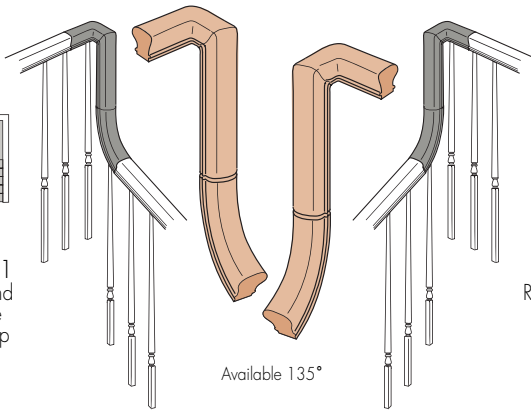


Newel

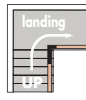
F7065
Right Hand
2-Rise
with Cap



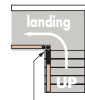
F7071
Left Hand
2-Rise
no Cap



Available 135°

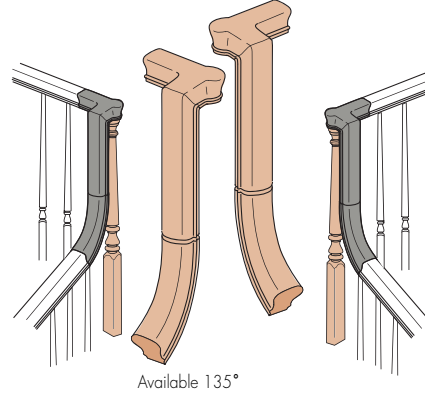


F7076
Right Hand
2-Rise
no Cap

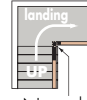


Newel

F7081
Left Hand
2-Rise
with Cap

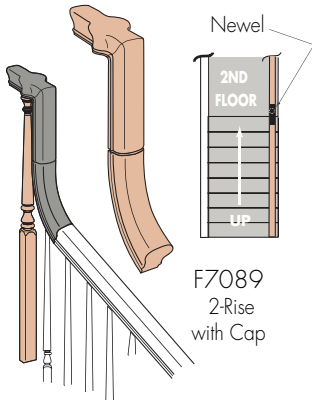


Available 135°

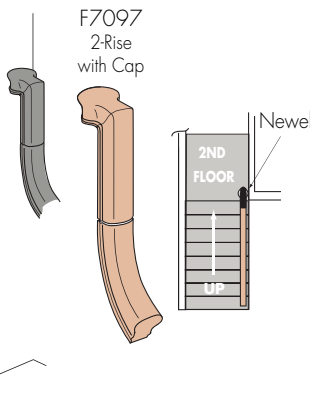


Newel

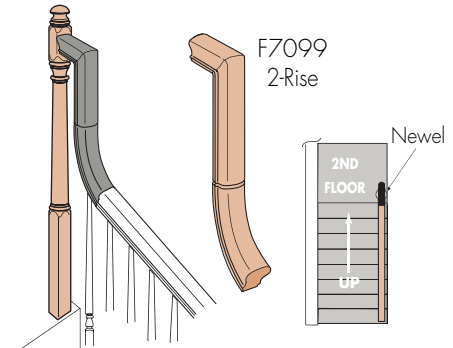
F7086
Right Hand
2-Rise
with Cap



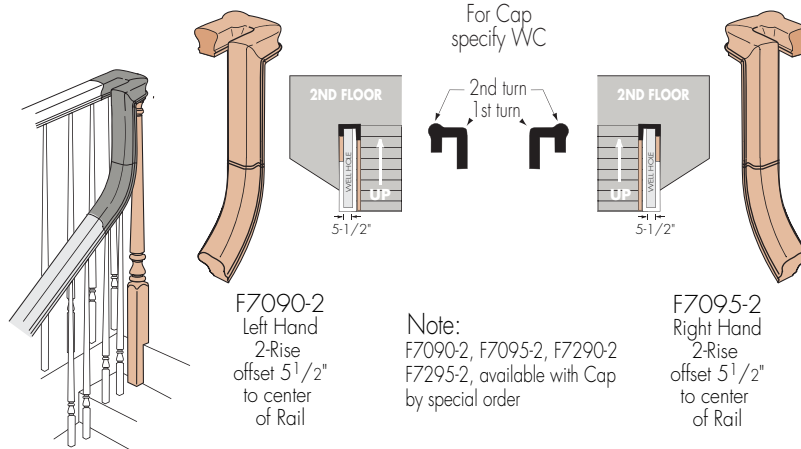
F7089
2-Rise
with Cap



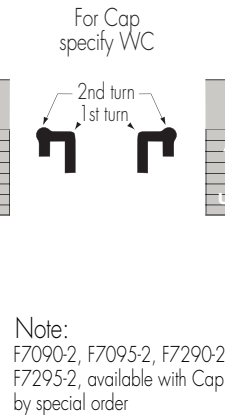
F7097
2-Rise
with Cap



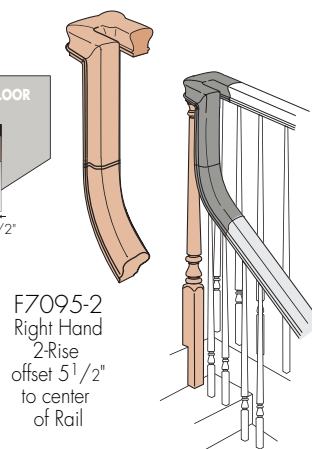
F7099
2-Rise



F7090-2
Left Hand
2-Rise
offset 5 1/2"
to center
of Rail



Note:
F7090-2, F7095-2, F7290-2,
F7295-2, available with Cap
by special order



F7095-2
Right Hand
2-Rise
offset 5 1/2"
to center
of Rail

Treads, Risers, Starting Steps & Tread Caps

All Fitts Industries, Inc. Starting Steps Include:

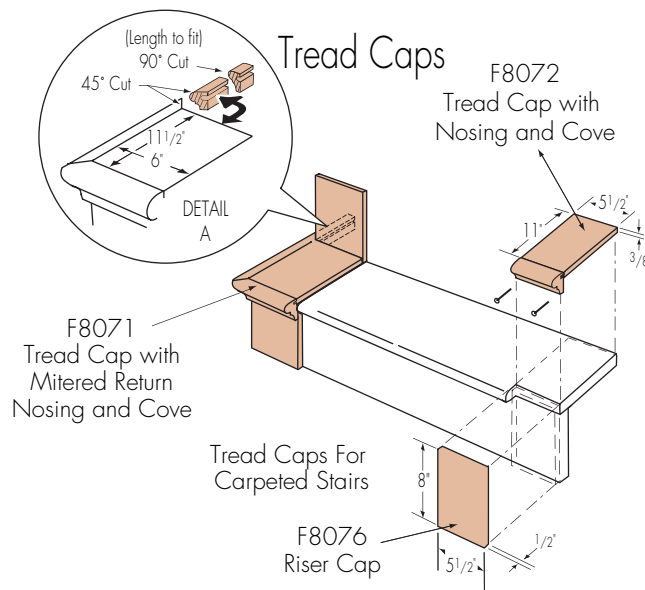
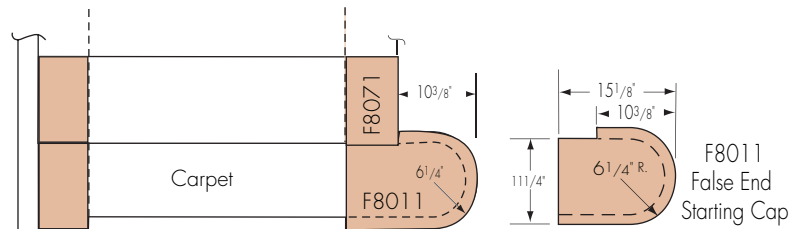
- Radius Shoe and Cove Mould
- Straight Shoe & Cove Mould
- The Option to Specify Paint Grade or Stain Grade Risers
- Reversible Single Bullnose Treads

Specifications:

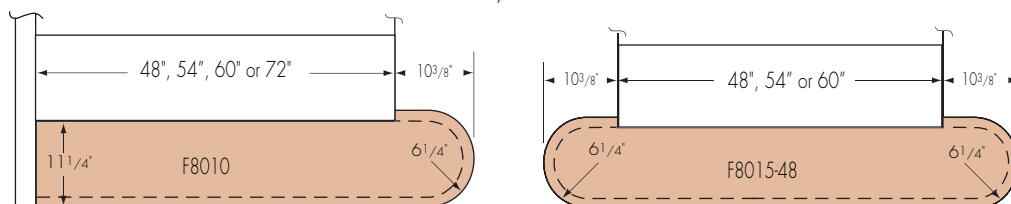
- Starting Step Tread – 1" x 11-1/32"
- Riser – 3/4" x 7" (Overall Rise 8" w/Tread)
- Widths – are specified to outside of finished stringers, taking into consideration skirt board, sheetrock and tread brackets, if applicable.

False End Starting Step

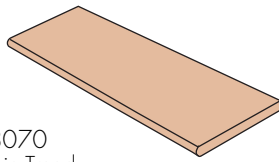
F8011 — Use with F6010 Handrail with Turnout or Volute when carpeting the stair.



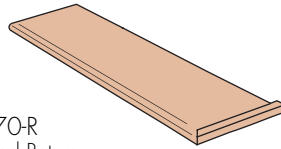
F8010 and F8015-48
Use with F6010 Handrail, with Turnout and Volutes.



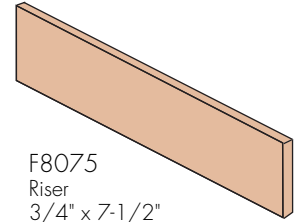
Treads, Risers, & Accessories



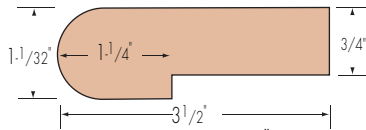
F8070
Plain Tread
1-1/32" x 10-1/2"
1-1/32" x 11-1/2"
Standard Lengths
36", 42", 48", 54", 60", 72"



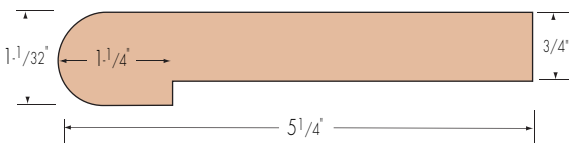
F8070-R
Mitered Return
1-1/32" x 10-1/2"
1-1/32" x 11-1/2"
Standard Lengths
36", 42", 48", 54", 60", 72"



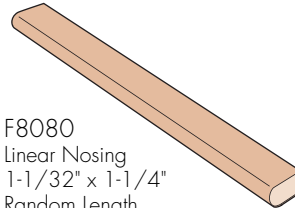
F8075
Riser
3/4" x 7-1/2"
3/4" x 8"
Standard Lengths
36", 42", 48", 54", 60", 72"



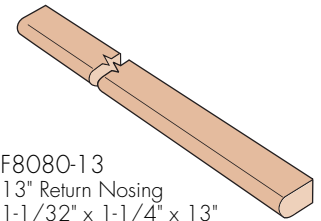
F8090-3 1/2"
Landing Tread
3-1/2" - 5-1/4"
Random Length



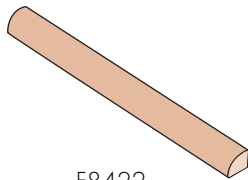
F8090-5 1/4"



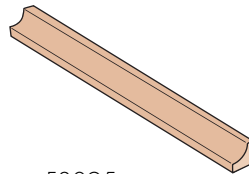
F8080
Linear Nosing
1-1/32" x 1-1/4"
Random Length
Nosing



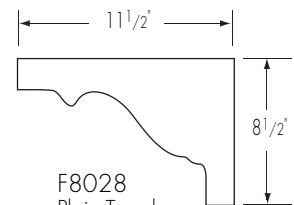
F8080-13
13" Return Nosing
1-1/32" x 1-1/4" x 13"
Nosed 1-Edge



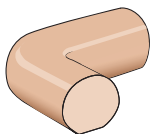
F8422
Shoe Mould
1/2" x 3/4"
Random Length



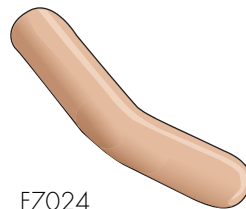
F8095
Cove Mould
3/4" x 3/4"
Random Length



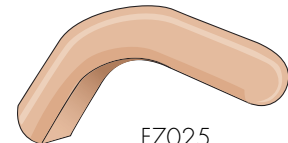
F8028
Plain Tread
Bracket
5/16" Thick



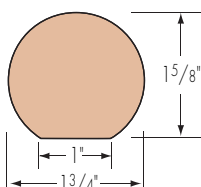
F7023
Quarterturn



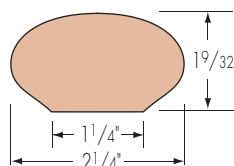
F7024
Starting Easing



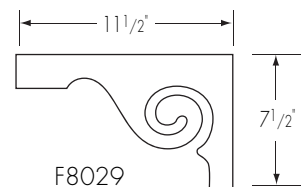
F7025
Over Easing



F6040
Wall Rail



F6042
Wall Rail



F8029
Scroll Tread
Bracket
5/16" Thick

Accessories



F3002
Brass



F3002-AB
Antique Brass



F3002-BL
Black



F3010-BN
Brushed Nickel
Center Mount



F3010-BC
Brushed Chrome
Center Mount



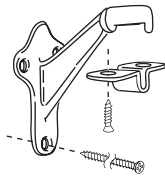
F3010-AB
Antique Brass
Center Mount



F3010
Brass
Tri-Mount

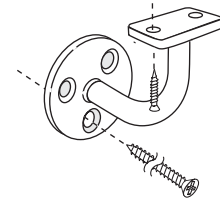
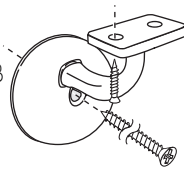


F3016-BC
Brushed Chrome
Tri-Mount

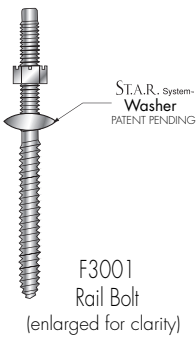


F3002
Tri-Mount
Wall Rail
Bracket

F3010-BK/BC/AB
Center Mount
Wall Rail Bracket



F3010
Tri-Mount
Wall Bracket
Solid Brass



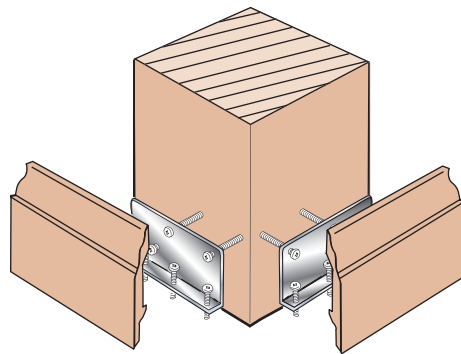
F3001
Rail Bolt
(enlarged for clarity)



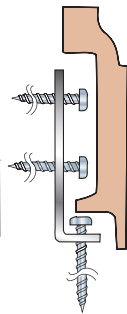
F3000
Rail Plug



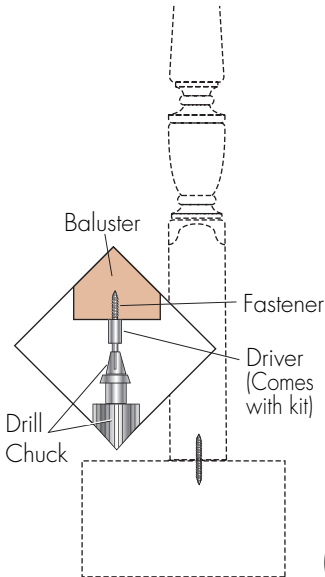
F3004
Clamp
Nail



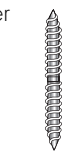
L-Anchor
Newel Fastener



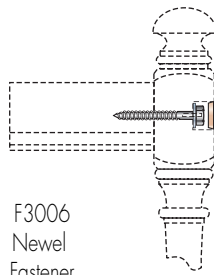
F3007-3"
F3008-3 1/2"



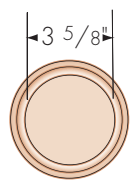
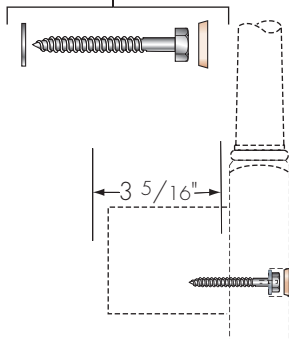
F3009
Baluster
Fastener
Driver



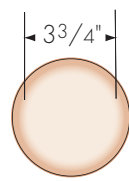
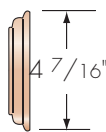
F3003
Baluster
Fastener
(No Driver)



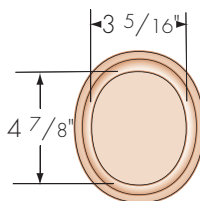
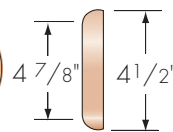
F3006
Newel
Fastener



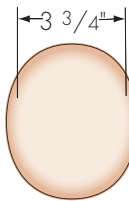
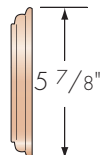
F7017
Step Detail



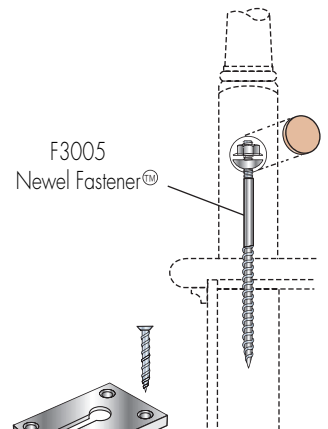
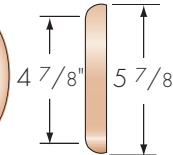
F7317
Eased Edge



F7037
Step Detail



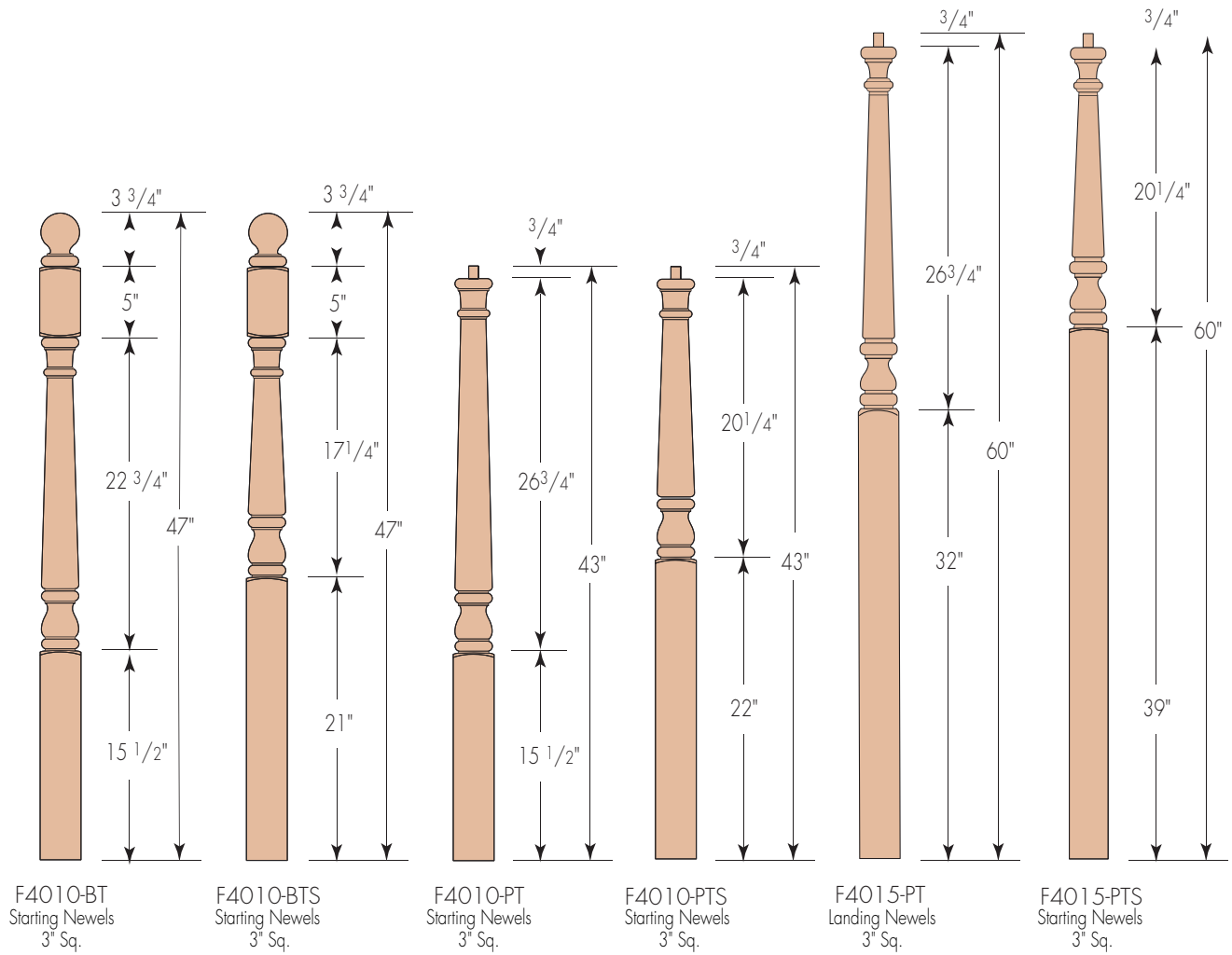
F7337
Eased Edge

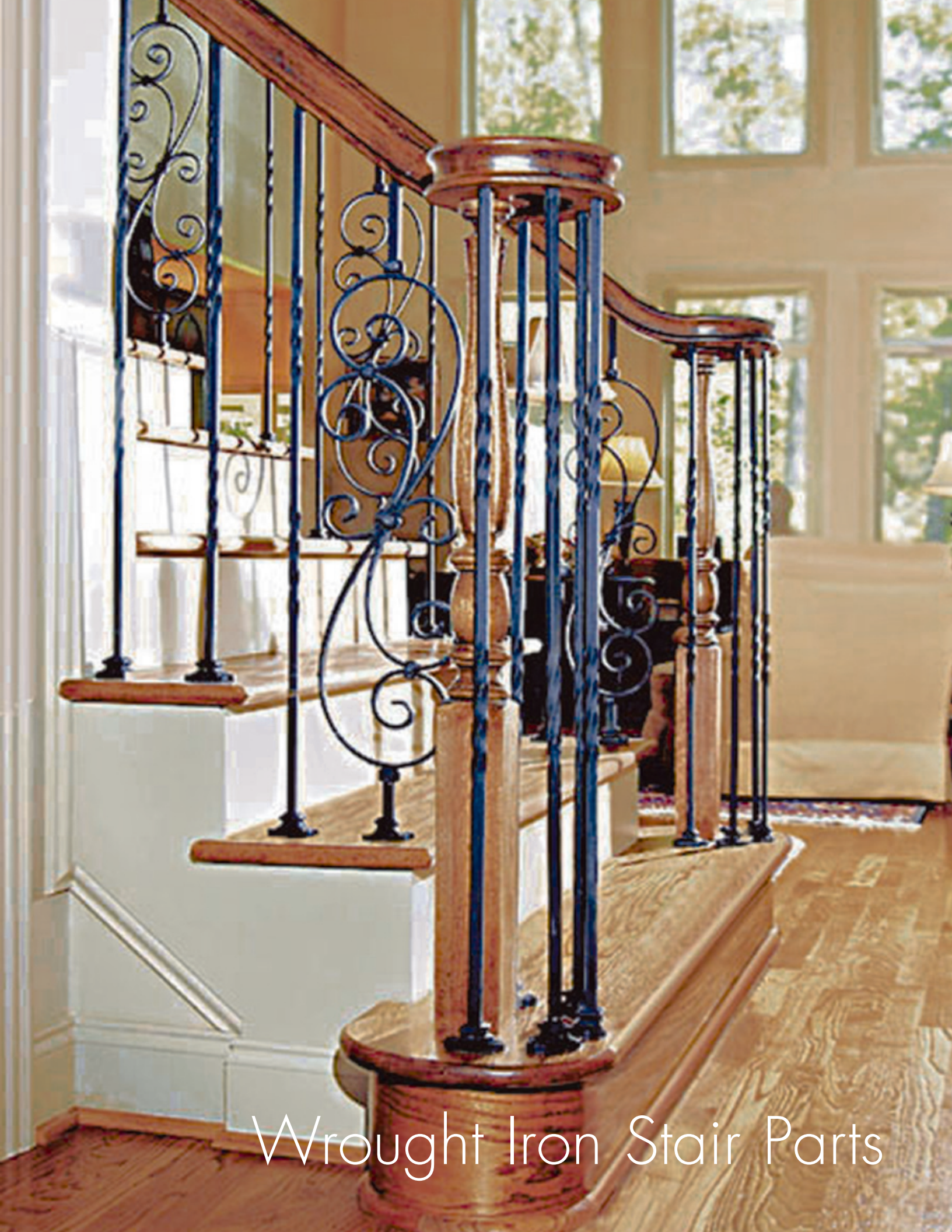


F3005
Newel Fastener™

F3015
Key Lock Newel Fastener™

Repetitive Specials





Wrought Iron Stair Parts

European Style & Elegance



Cover photo and photo above furnished by
Horner Millwork, Somerset, Mass.

Product Finishes

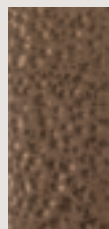
Five Elegant Finish Styles
From Which to Choose



Silver
Black



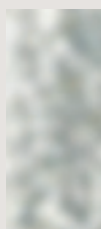
Flat
Black



Antique
Bronze



Oil Rubbed
Bronze



Antique
Nickel

For centuries, artisans have hammered and formed wrought iron. Through the ages blacksmiths mastered their trade to create ornate designs that became a staple of European style and elegance.

Frequently Asked Questions

Can I Paint Wrought Iron Product?

Yes, you can. For interior use, we suggest using one or two coats of lacquer or oil based paint for metal.

Can I Use Wrought Iron Product for Exterior Applications?

Yes, you can. For exterior use we suggest using two coats of exterior, oil based, metal paint for protection from the elements. We suggest not mounting wrought iron into concrete or brick. These substances are porous and trap water which can corrode iron product over time.

How Do I Cut or Trim Wrought Iron Products?

We suggest the use of a band saw with a metal cutting blade, but any metal cutting saw will work.

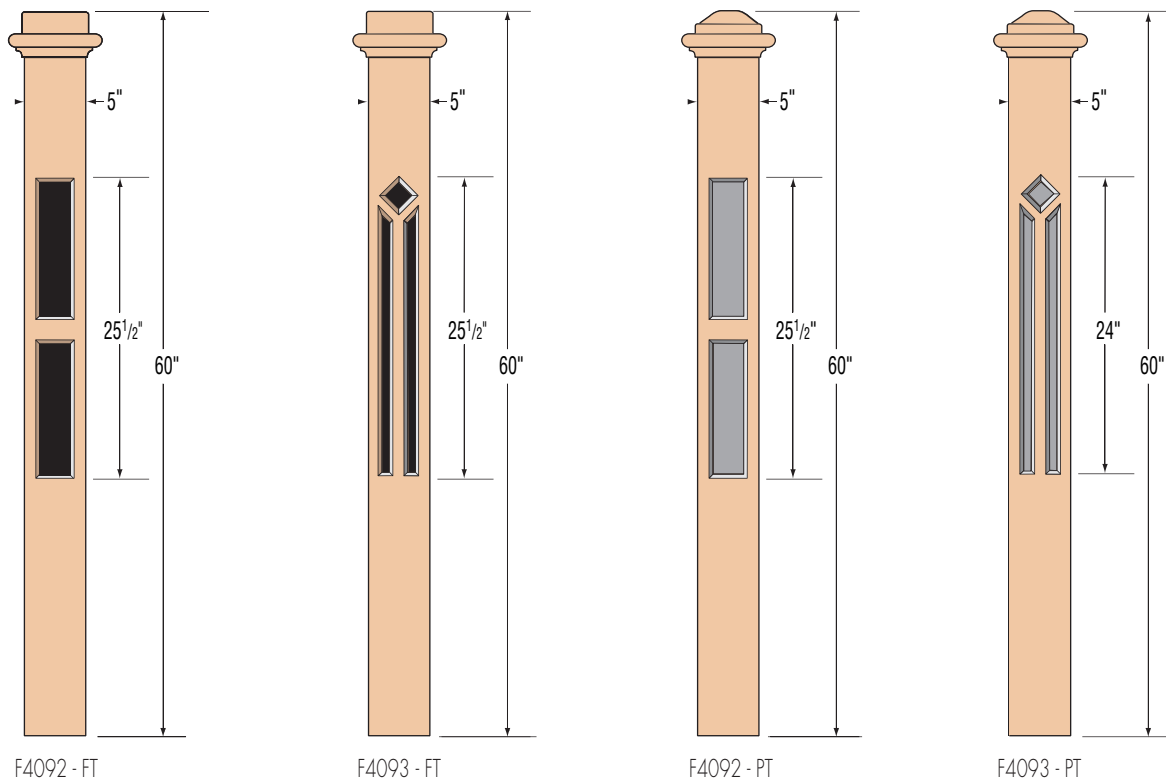
Can I Replace My Wood Balusters with Wrought Iron and Still Use the Same Piece of Handrail?

This is a bit tricky. In most cases - we say no. The layout of the balusters is going to differ. Due to code issues like sphere rules, and the design of the balusters you select, layouts are going to differ - as will the holes needed to be bored in the handrail.

Balusters are 1/2 inch or 9/16 inch respectively, and come in a 44 inch length. (Balusters are trimmed from the bottom to maintain the consistency of the pattern according to the rake of the stair.)

All Fitts Industries, Inc. balusters come with a 1/2 inch round pin top for easy installation in wood handrail.

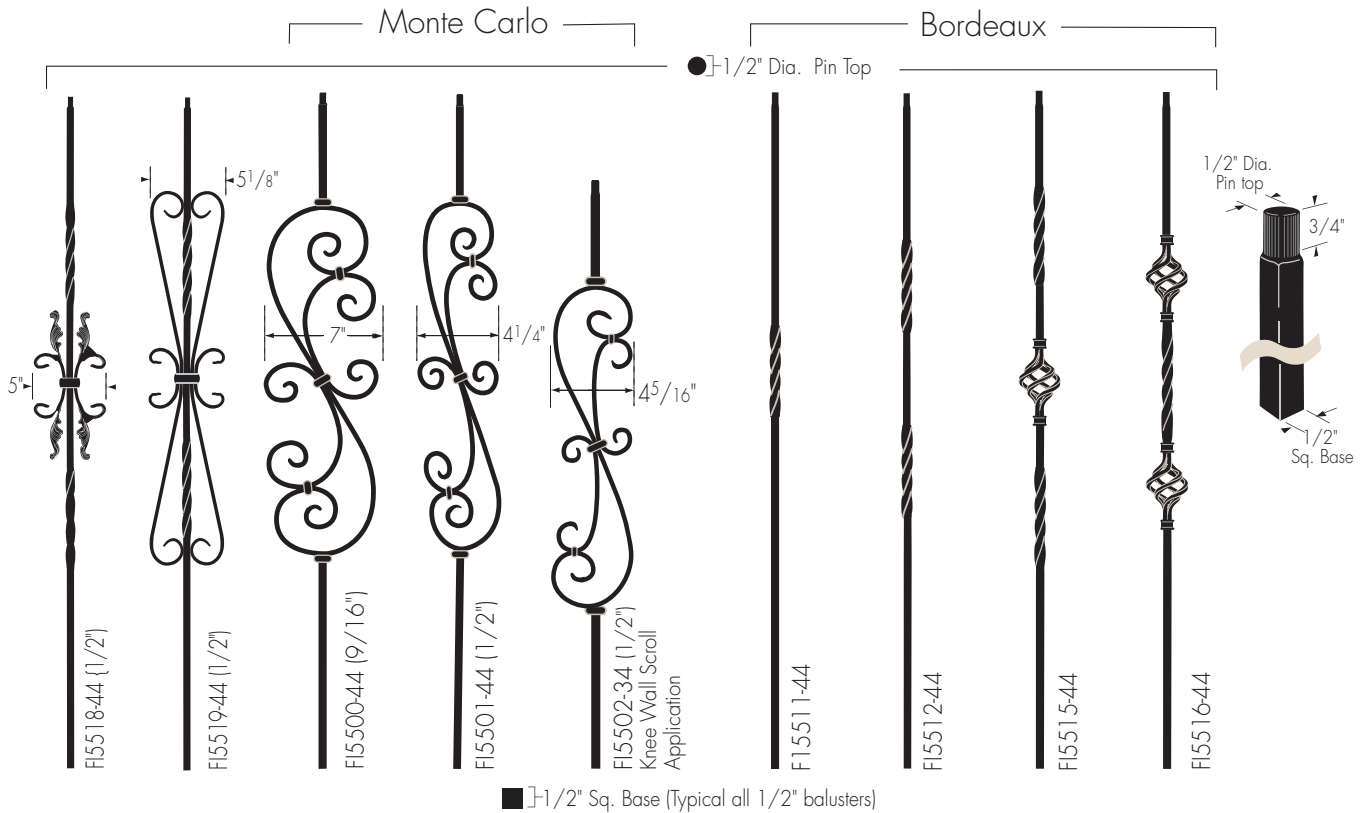
New from Fitts Industries, Inc.
Box Newels with Wrought Iron Inlays



Fitts Industries, Inc, introduces an elegant series of Arts and Crafts Style Wrought Iron Inlay Box Newels. Iron Inlay Box Newels are manufactured in Red Oak and Hard Maple and have two options of caps — Fitts' standard box newel cap or Fitts' new pyramid cap.

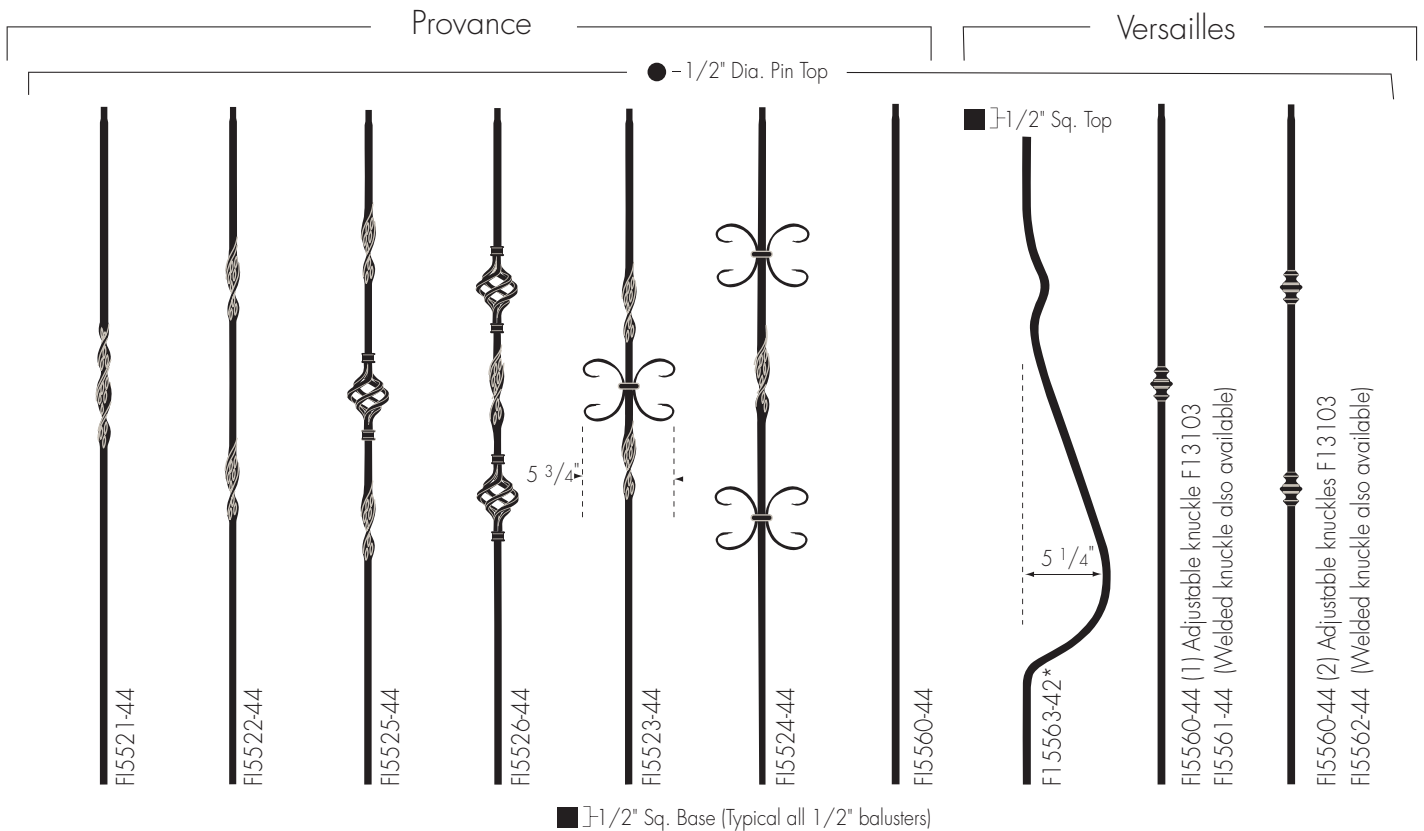
Iron Balusters

1/2 inch Balusters



For 1/2" Balusters use:

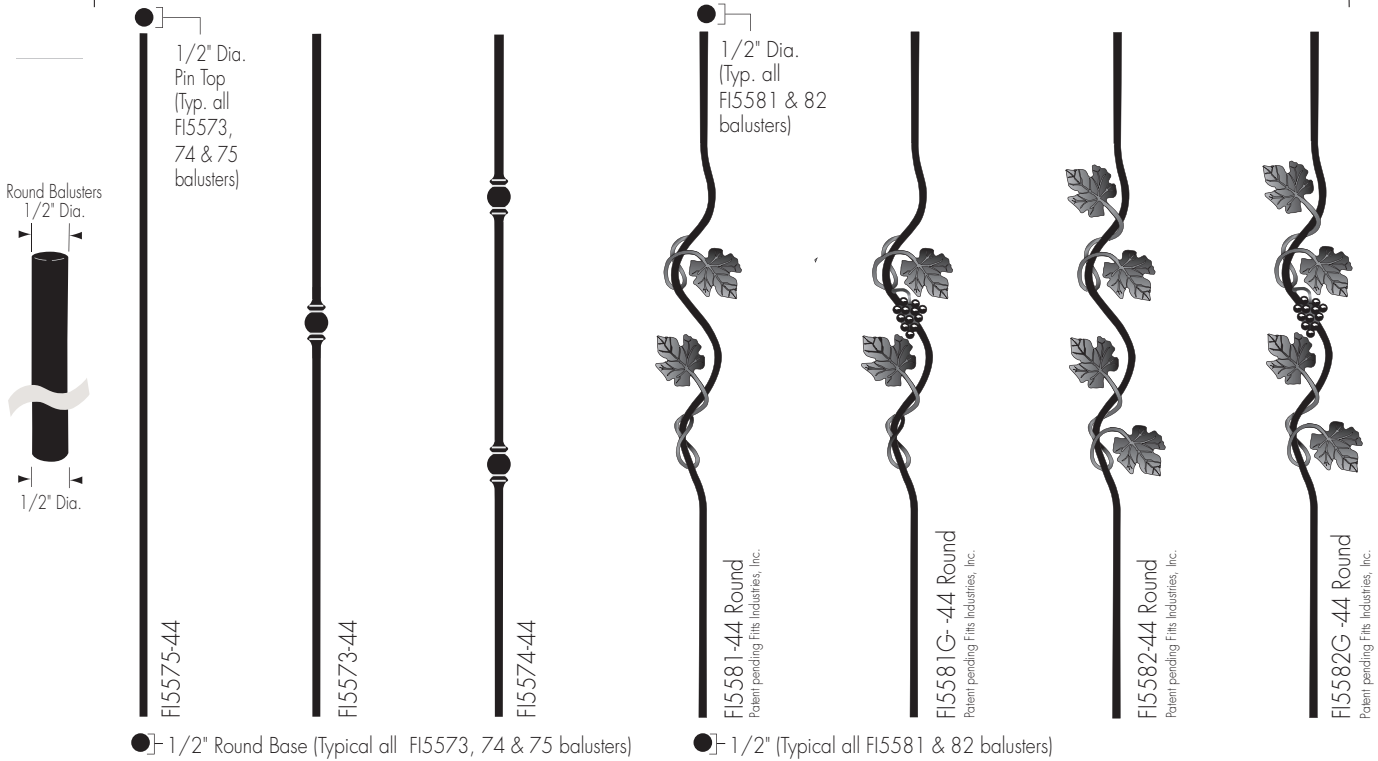
- FI3101 Shoe
- FI3102 Pitch Shoe for Knee Wall Installation
- FI3104 Shoe w/screws
- FI3103 Adjustable Knuckle



Iron Balusters

1/2 inch Balusters

Burgundy Round



For 1/2" Round Balusters use:

For 9/16" Balusters use:

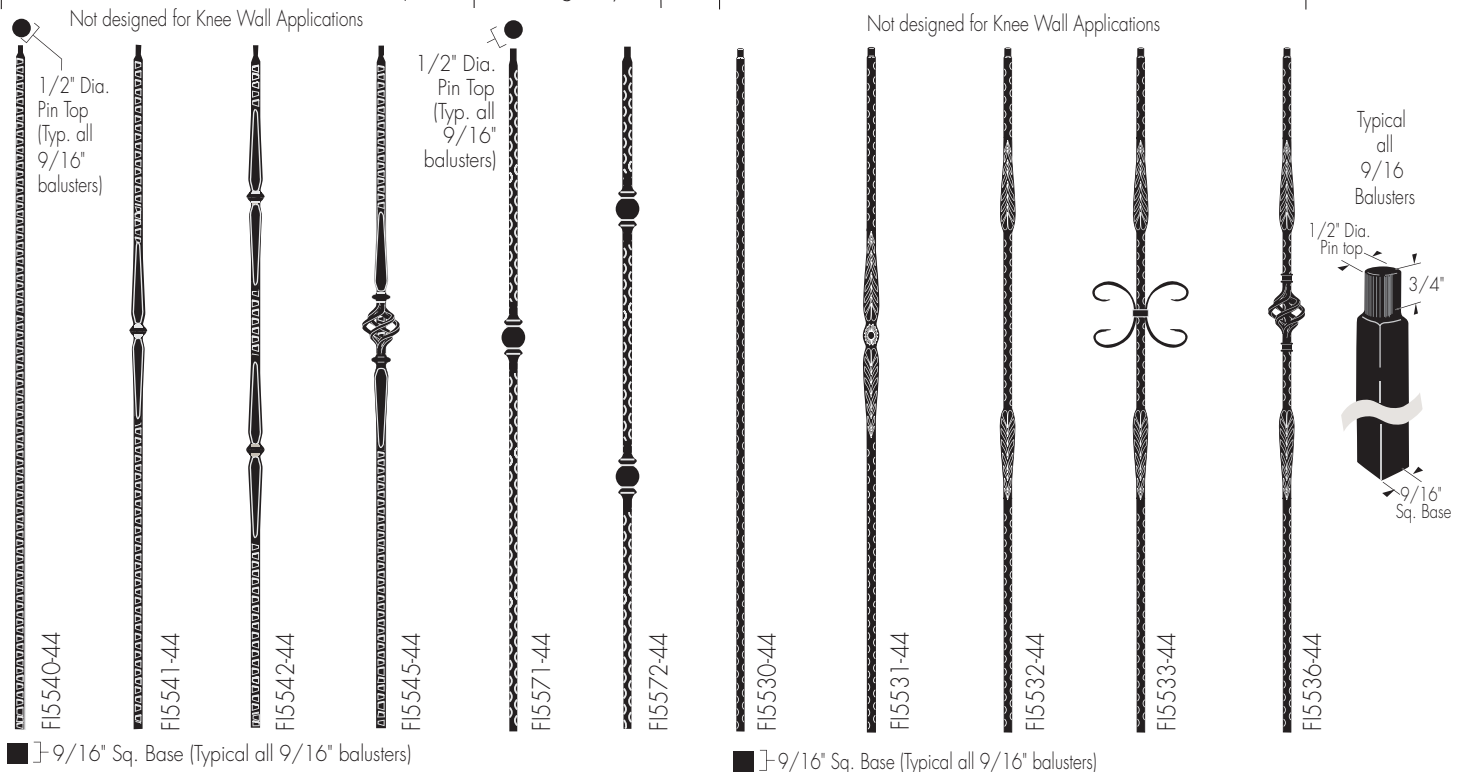


9/16 inch Balusters

Tavistock

Burgundy

Phoenix



Quick Installation Reference



Step 1. Bore 5/8 inch holes in tread to accept the baluster bases.



Step 2. Cut baluster bases to height using a saw with a metal cutting blade and insert bases into tread.



Step 3. Using the epoxy with a hardening agent, fill the hole surrounding the baluster.



Step 4. Drop corresponding 1/2 inch or 9/16 inch shoe over baluster.



Step 5. Tighten the shoe to the baluster using a hex wrench.



Step 6. Repeat on remaining balusters.



Step 7. All Fitts Industries, Inc. iron balusters come with a 1/2 inch diameter pin. Bore 1/2 inch holes in the handrail to accept baluster pins.



Step 8. Apply epoxy to all holes, limiting amount slightly to guard against runoff or dripping.



Step 9. Place rail onto corresponding balusters. Fit should be snug. If needed lay a scrap softwood block on the rail and gently tap into place with a wooden mallet.

Iron Newels, Shoes, Knuckles & Handrail

Newels

3/4" Dia. Pin Top (Typical all 1-1/8" Sq. Newels shown)



1-1/8" Sq. Base (Typical all Newels shown)

Shoes / Knuckles for Square Balusters



FI3101 1/2 inch shoe
FI3101-2 9/16 inch shoe



FI3104 1/2 inch shoe
FI3104-2 9/16 inch shoe



FI3102 1/2 inch pitch shoe
FI3102-2 9/16 inch pitch shoe



FI3103 adjustable
1/2 inch knuckle

Shoes for Round Balusters



FI3101-5 1/2"
Round Shoe



FI3102-5 1/2"
Round Pitch Shoe



FI3104 1/2"
Round Shoe
w/screws



FI3200-NZ

FI3200-EF

FI3200

FI3200-NZ Nozzle
Designed to distribute
a 1:1 Mixture

FI3200-EF Two Part Epoxy
and hardening agent
(Quick Dry Epoxy-10-15
Contact Points)

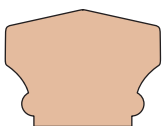
FI3200 Epoxy gun



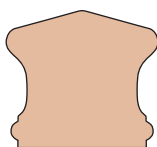
FI3400 Newel attachment and
shoe with screws and wrench



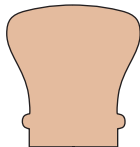
Handrail



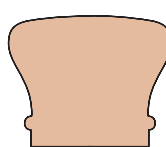
F6910



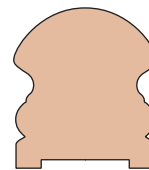
F6710



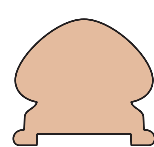
F6010



F6210



F6019



F6005

Stair Take-Off Quick Reference

With more than 3000 parts, pieces & profiles, selection and ordering stair parts can be intimidating. To begin the process, ask yourself a few simple questions:

1. **Is the stair Post-to-Post or Over-the-Post?**
2. **What style of stair parts will match the architectural theme of the home?**
3. **What species of wood will match the continuity of the home?**
4. **What are my concerns relating to building codes?**

Fitts Industries, Inc. has alleviated some of this guesswork for you. All of the newel heights, baluster heights, and most of the handrail profiles will fall within the IRC 2003 building code requirements with regards to stairs. It is however, important that you familiarize yourself with codes regarding stair building in your locality.

As far as compiling a list of what you will need, there are several important components you will want to pay attention to:

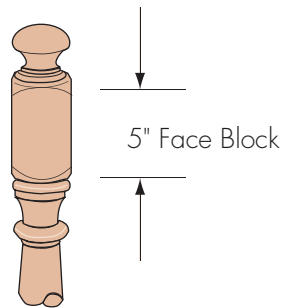
- **Starting Steps** - Starting steps are the decorative first step of a stair. With elongated ends that imitate a bull's nose - bullnose starting steps often support volute or turnout newels, and volute or turnout fittings. The important measurement of a single or a double bullnose is the dimension of the finished stringers + skirtboard + sheetrock.
- **Treads** - Form the stepping surface of the stair. Treads are often open sided with returned ends or unfinished and set between a series of knee walls.
- **Risers** - The vertical face of a stair step.
- **Handrail** - Handrail is the top rail used in a balustrade system; it provides gripping surface for support. Handrail is either straight or bending for radius curves. Handrail comes in a variety of profiles, and most of the profiles offer fittings to provide Over-the-Post systems.
- **Moulding & Brackets** - Ornamental brackets and moulding can be added to the undersides of the treads or tread returns.
- **Attaching Hardware** - All Fitts Industries, Inc. fittings come with rail bolts for the necessary connection points. You will need to determine what method of connection you will use on your newel posts, and order the proper hardware for each post. Note that most Fitts Industries, Inc. balusters come with a dowel pin for installation in the tread.

The next several pages will discuss **newel posts, balusters, and fittings** - followed by a series of tables depicting **baluster length structures**. Please be aware all of Fitts Industries, Inc. newel heights and balusters work off of a 34 - 38" rake rail height.

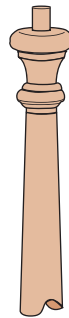
Newel Selection

After you have determined the species of wood you are going to use for your staircase, and decided whether the stair is going to be carpeted, most people select the newel profile they will use throughout the stair. To get the basics, in a classic L-shaped stair with a landing there are three newel variations you will use:

Starting Newel Post-to-Post



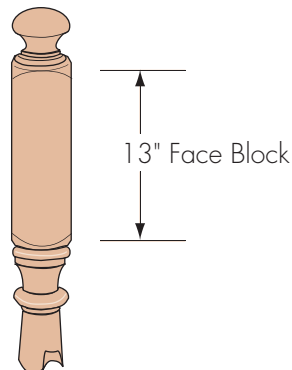
Over-the-Post



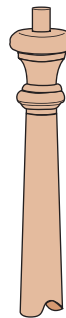
Pin Top Newel

Starting Newel – Starting Easing
Volute Newel – Volute
Turnout Newel – Turnout

Intermediate Newel Post-to-Post



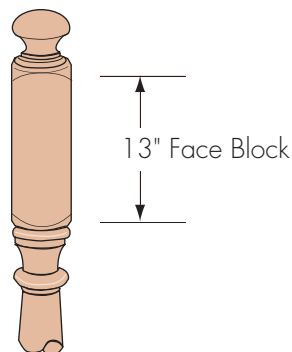
Over-the-Post



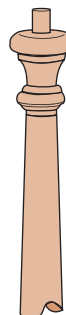
Pin Top Landing Newel

Accepts Transition Fittings

Landing Newel Post-to-Post



Over-the-Post



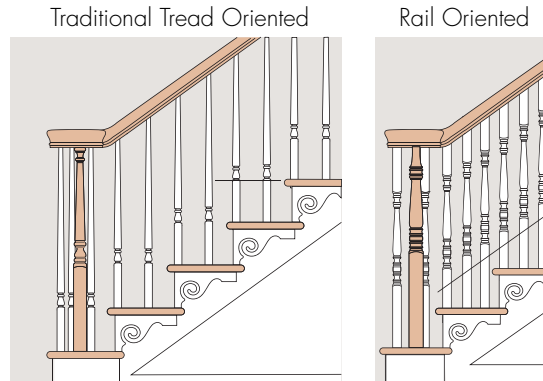
Pin Top Landing Newel

Accepts Gooseneck
Fittings

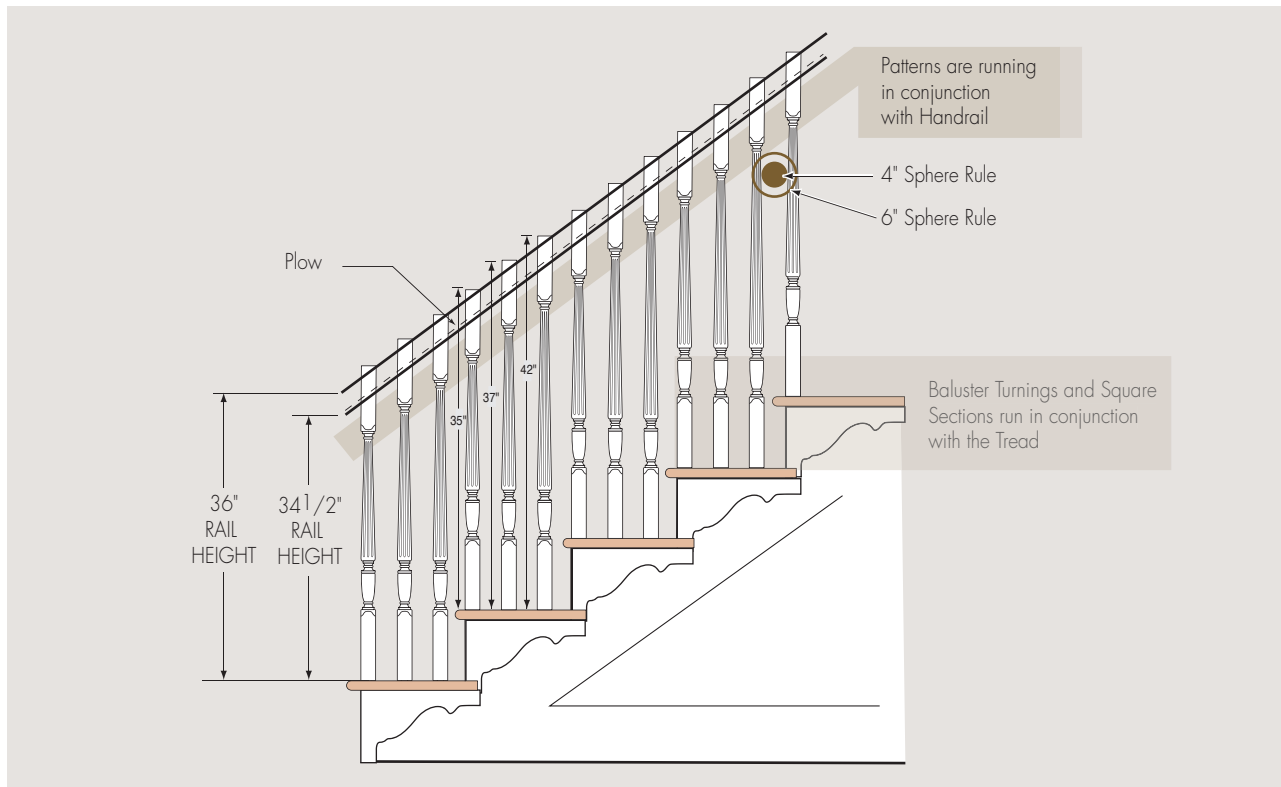
Baluster Selection

Fitts Industries, Inc. balusters have been designed in families, so that each newel pattern has one or more corresponding baluster turnings that work in conjunction with the newels. Most questions arise with what baluster length structure to use. Fitts Industries, Inc. has developed rake rail height – with the patterns that will not only pass with building codes 4-inch sphere rule, but will maintain architectural alignment throughout the stair.

Balusters were often aligned as either:



In many cases, the 6-inch sphere rule was minimized to a 4-inch sphere rule, certain systems changed from a two baluster per tread to a three baluster per tread layout. Geometrically, this changed the way the patterns would work in a Rail Oriented System. So, in June of 2001 Fitts Industries, Inc. began altering length structures so that we could provide an architecturally correct alternative for those customers who prefer Tread Oriented Systems.



A simplified table of baluster & newel options can be found on pages 52-57.

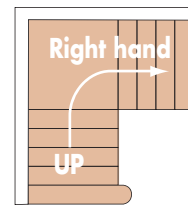
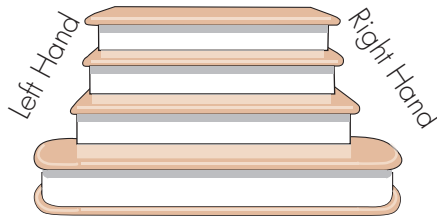
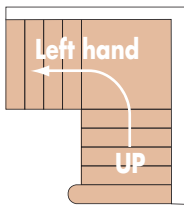
Fitting Selection

Fittings are designed to provide the necessary changes in rake angles in handrail and provide a continuous gripping surface throughout the stair. Fitts Industries, Inc. offers fittings in three handrail profiles: F6010, F6210, F6310, F6910 and F6410. Fittings are designed in three major families:

- Starting Fittings – The beginning of the rail gripping surface
- Transition Fittings – Fittings that are transitioning units of a rail surface
- Gooseneck Fittings – Fittings used to allow for transition in height and (or) direction in either a landing or a balcony

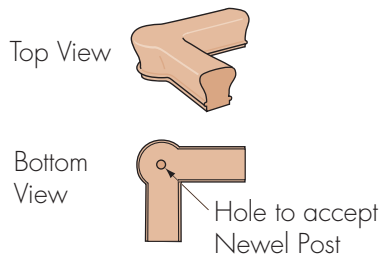
Fitting Characteristics

Right Hand or Left Hand – Fittings are determined to be Right Handed or Left Handed by the natural act of ascending or climbing the stair.

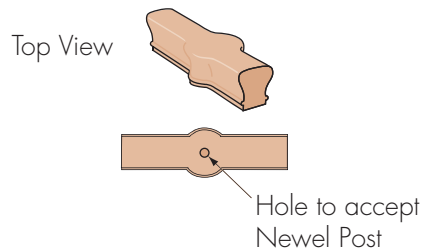


Fitting with Cap – Fittings that run over a newel post have a cap to accommodate the newel post.

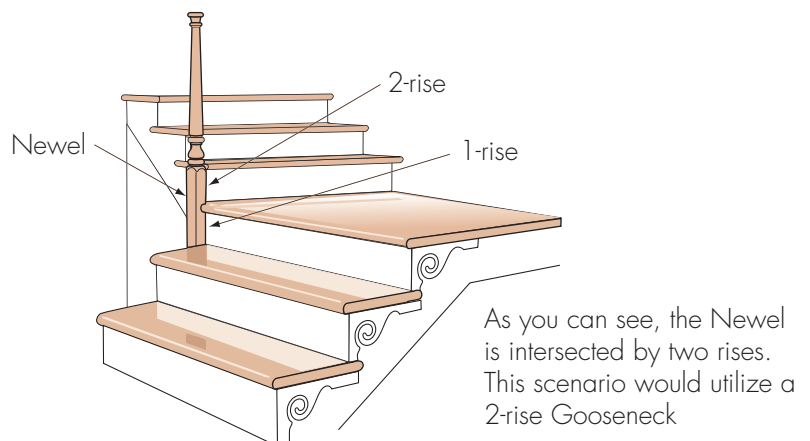
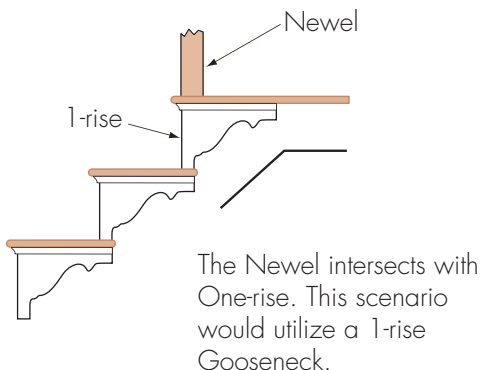
F7021

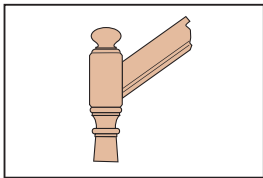


F7020



One Rise, Two Rise & Three Rise – In the transition of handrail, often times fittings must make changes in height and (or) direction. The easiest way to gauge the rise of a fitting is to note how many rises intersect at a transitioning or landing newel.





Hemlock Post-to-Post Suggested Newel & Baluster Components

These layouts are based on suggested families of stairparts with regards to IRC 2003 Building Codes.

Handrail can be selected with regards to its' proportional size or the necessity of a plow to accept square top balusters. (1-1/4" Balusters will require a 1-1/4" Plowed Handrail.)

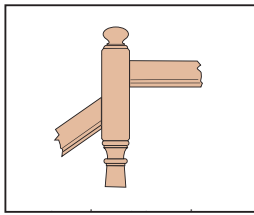
Post-to-Post (Without Fittings)

34 - 38" Rake Rail Height

First Flight of Stairs (Classic L-Shaped Design)						
Hemlock	Newel	Profile	Kneewall	Baluster		
	Starting			1st Baluster	2nd Baluster	3rd Baluster (Opt.)
Traditional	FH4040	FH5015	31 or 34"	36	39	42
		FH5050	36	36	42	42
		FH5070	36	36	42	42
	FH4040-TT	FH5015	31 or 34"	36	39	42
		FH5050	36	36	42	42
		FH5070	36	36	42	42
Madison	FH3500	FH5610	36	39	42	42
		FH5105	36	36	42	42
Hampton	FH4500	FH5315	32	36	42	42
		FH5611	32	36	42	42
		FH5005	32	36	42	42
Olympia	FH4840	FH5802	32	36	42	42
Mission Style	FH4000-348	FH5060	36	36	42	42
		FH5060-CH	36	36	42	42
	FH4000-448	FH5360	36	36	42	42
	FH4000-CH-448	FH5360-CH	36	36	42	42
		FH5360	36	36	42	42
	FH4004	FH5360	36	36	42	42
	FH4104	FH5360	36	36	42	42
	FH4204	FH5360	36	36	42	42

34 - 38" Rake Rail Height

Second Flight of Stairs						
Hemlock	Newel	Profile	Kneewall	Baluster		
	Starting			1st Baluster	2nd Baluster	3rd Baluster (Opt.)
Traditional	FH4046-60	FH5015	31 or 34"	36	39	42
		FH5050	36	36	42	42
		FH5070	36	36	42	42
	FH4040-TT	FH5015	31 or 34"	36	39	42
		FH5050	36	36	42	42
		FH5070	36	36	42	42
Madison	FH3505	FH5610	36	36	42	42
		FH5105	36	36	42	42
Hampton	FH4505	FH5315	32	36	42	42
		FH5611	32	36	42	42
		FH5005	32	36	42	42
Olympia	FH4846	FH5802	32	36	42	42
Mission Style	FH4000-360	FH5060	36	36	42	42
		FH5060-CH	36	36	42	42
	FH4000-460	FH5360	36	36	42	42
	FH4000-CH-460	FH5360-CH	36	36	42	42
		FH5360	36	36	42	42
	FH4005	FH5360	36	36	42	42
	FH4105	FH5360	36	36	42	42
	FH4205	FH5360	36	36	42	42

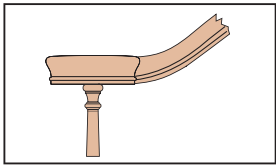


Hemlock Post-to-Post Suggested Newel & Baluster Components (Continued)

Post-to-Post (Without Fittings)

34 - 38" Rake Rail Height

Balcony/Landing			
Hemlock	Newel	Baluster	
	Starting	Profile	Balcony
Traditional	FH4045 or FH4040	FH5015	42
		FH5050	42
		FH5070	42
	FH4040-TT	FH5015	42
		FH5050	42
		FH5070	42
Madison	FH3503	FH5610	42
		FH5105	42
Hampton	FH4505	FH5315	42
		FH5611	42
		FH5005	42
Olympia	FH4846	FH5802	42
Mission Style	FH4000-360	FH5060	42
		FH5060-CH	42
	FH4000-460	FH5360	42
	FH4000-CH-460	FH5360-CH	42
	FH4005	FH5360	42
	FH4105	FH5360	42
	FH4205	FH5360	42



Hemlock Over-the-Post Suggested Newel & Baluster Components (Continued)

Over-the-Post

34 - 38" Rake Rail Height

First Flight of Stairs (Classic L-Shaped Design)

Hemlock	Newel			Baluster			Baluster Placement		
	Starting	Volute	Turnout	Profile	Volute	Turnout	1st Baluster	2nd Baluster	3rd Baluster (Opt.)
Traditional	FH 4010	FH4013	FH4014	FH5015	42	42	36	39	42
	FH 4010	FH4013	FH4014	FH5050	42	42	36	42	42
	FH 4010	FH4013	FH4014	FH5070	42	42	36	42	42

FH4020 **Fitts Industries, Inc. offers a FH4020 as a Pin Top alternative for long rake sections

34 - 38" Rake Rail Height

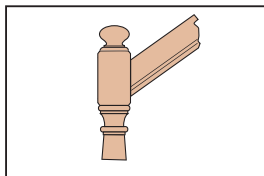
Second Flight of Stairs

Hemlock	Newel	Baluster			
	Intermediate	Profile	1st Baluster	2nd Baluster	3rd Baluster (Opt.)
Traditional	FH4015	FH5015	36	39	42
		FH5050	36	42	42
		FH5070	36	42	42

34 - 38" Rake Rail Height

Second Flight of Stairs

Hemlock	Newel	Baluster		
	Intermediate	Profile	Balcony	
Traditional	FH4015	FH5015	42	
		FH5050	42	
		FH5070	42	



Hardwood Post-to-Post Suggested Newel & Baluster Components

These layouts are based on suggested families of stairparts with regards to IRC 2003 Building Codes.

Handrail can be selected with regards to its' proportional size or the necessity of a plow to accept square top balusters. (1-1/4" Balusters will require a 1-1/4" Plowed Handrail.)

Post-to-Post (Without Fittings)

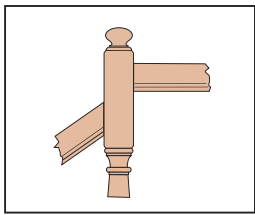
34 - 38" Rake Rail Height

First Flight of Stairs (Classic L-Shaped Design)

Hardwood	Newel		Baluster			
	Starting	Profile	Kneewall	1st Baluster	2nd Baluster	3rd Baluster (Opt.)
Traditional	F4040	F5015	31 or 34"	36	39	42
	F4040	F5050		36	42	42
	F4040	F5070		36	39	42
Lexington	F4140	F5015	31 or 34"	36	39	42
	F4140	F5050		36	42	42
	F4140	F5070		36	39	42
	F4140	F5105		36	42	42
	F4140	F5610		36	42	42
Mission Style	F4090	F5060	36	36	42	42
	F4000/F4000-BT	F5360	36	36	42	42
	F4005	F5360	36	36	42	42
	F4091	F5360	36	36	42	42
Mini-Canterbury	F4940-3-52	F5019		36	42	42
	F4940-3-52	F5109		36	42	42
Canterbury	F4940-52	F5911		36	42	42
	F4940-52	F5905		36	42	42

Balcony (Classic L-Shaped Design)

Hardwood	Newel		Baluster			
	Starting	Profile	Kneewall	1st Baluster	2nd Baluster	3rd Baluster (Opt.)
Traditional	F4046	F5015	31 or 34"	36	39	42
	F4046	F5050		36	42	42
	F4046	F5070		36	39	42
Lexington	F4146	F5015	31 or 34"	36	39	42
	F4146	F5050		36	42	42
	F4146	F5070		36	39	42
	F4146	F5105		36	42	42
	F4146	F5610		36	42	42
Mission Style	F4090	F5060	36	36	42	42
	F4000/F4000-BT	F5360	36	36	42	42
	F4006	F5360	36	36	42	42
	F4091	F5360	36	36	42	42
Mini-Canterbury	F4946-3-52	F5019		36	42	42
	F4946-3-52	F5109		36	42	42
Canterbury	F4946-52	F5911		36	42	42
	F4946-52	F5905		36	42	42

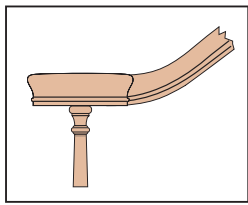


Hardwood Post-to-Post Suggested Newel & Baluster Components (Continued)

Post-to-Post (Without Fittings)

34 - 38" Rake Rail Height

Balcony			
Hardwood	Newel	Profile	Baluster
	Starting		
Traditional	F4042/45	F5015	42
	F4042/45	F5050	42
	F4042/45	F5070	42
Lexington	F4142	F5015	42
	F4142	F5050	42
	F4142	F5070	42
	F4142	F5105	42
	F4142	F5610	42
Mission Style	F4090	F5060	42
	F4001/F4001-BT	F5360	42
	F4005/06	F5360	42
	F4091	F5360	42
Mini-Canterbury	F4942-3-52	F5019	42
	F4942-3-52	F5109	42
Canterbury	F4942-52	F5911	42
	F4942-52	F5905	42



Hardwood Over-the-Post Suggested Newel & Baluster Components

These layouts are based on suggested families of stairparts with regards to IRC 2003 Building Codes.

Handrail can be selected with regards to its' proportional size or the necessity of a plow to accept square top balusters. (1-1/4" Balusters will require a 1-1/4" Plowed Handrail.)

Over-the-Post

34 - 38" Rake Rail Height

First Flight of Stairs (Classic L-Shaped Design)

Hardwood	Newel			Baluster			Baluster Placement		
	Starting	Volute	Turnout	Profile	Volute	Turnout	1st Baluster	2nd Baluster	3rd Baluster (Opt.)
Traditional	F4010-48	F4013	F4014	F5015	42	42	36	39	42
	F4010-48	F4013	F4014	F5050	42	42	36	42	42
	F4010-48	F4013	F4014	F5070	42	42	36	42	42
Hampton	F4210-48	F4210	F4210	F5611	42	42	36	42	42
	F4210-48	F4210	F4210	F5005	42	42	36	42	42
Mini-Canterbury	F4910-3	F4910-3	F4910-3	F5019	42	42	36	42	42
	F4910-3	F4910-3	F4910-3	F5109	42	42	36	42	42
Canterbury	F4910	F4910	F4910	F5911	42	42	36	42	42
	F4910	F4910	F4910	F5905	42	42	36	42	42

F4020 & F4220 **Fitts Industries, Inc. offers a FH4020 as a Pin Top Alternative for long rake sections

34 - 38" Rake Rail Height

Second Flight of Stairs

Hardwood	Newel	Baluster			
	Intermediate	Profile	1st Baluster	2nd Baluster	3rd Baluster (Opt.)
Traditional	F4015	F5015	36	39	42
	F4015	F5050	36	42	42
	F4015	F5070	36	42	42
Hampton	F4215	F5611	36	42	42
	F4215	F5005	36	42	42
Mini-Canterbury	F4915-3	F5019	36	42	42
	F4915-3	F5109	36	42	42
Canterbury	F4915	F5911	36	42	42
	F4915	F5905	36	42	42

34 - 38" Rake Rail Height

Balcony

Hardwood	Newel	Baluster	
	Balcony	Profile	Balcony
Traditional	F4010-48	F5015	42
	F4010-48	F5050	42
	F4010-48	F5070	42
Hampton	F4210-48	F5611	42
	F4210-48	F5005	42
Mini-Canterbury	F4910-3	F5019	42
	F4910-3	F5109	42
Canterbury	F4910	F5911	42
	F4910	F5905	42

Architectural Stair Designs



Pictured: F6910-Oak Handrail • F4942-Oak Newels • FP5911-Paint Grade Balusters • F8090-5 1/4 Oak Landing Tread

Downloadable CAD Detail

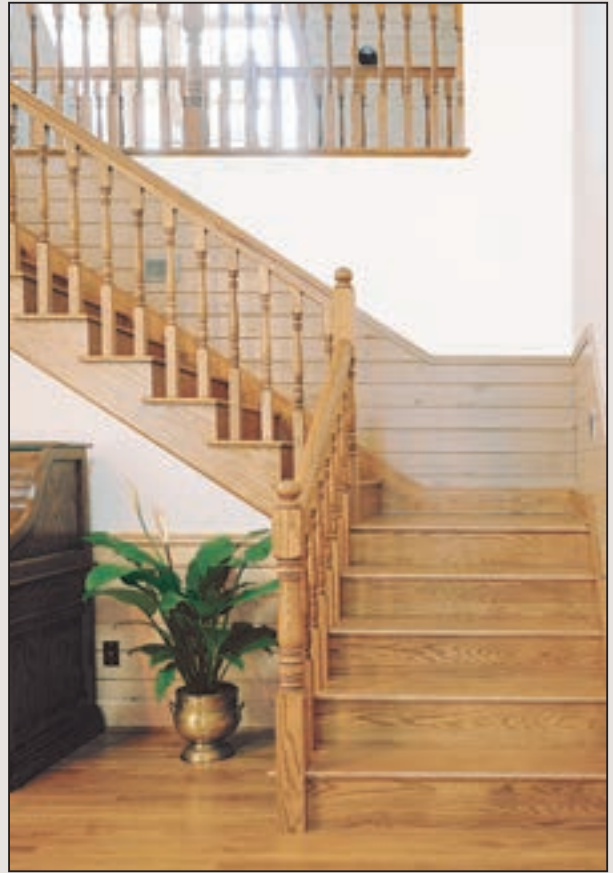
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Architects and Specifiers alike—please visit Fitts Industries', Inc. interactive website to download more than 100 .dwg files.

Gallery



Traditional



Hampton

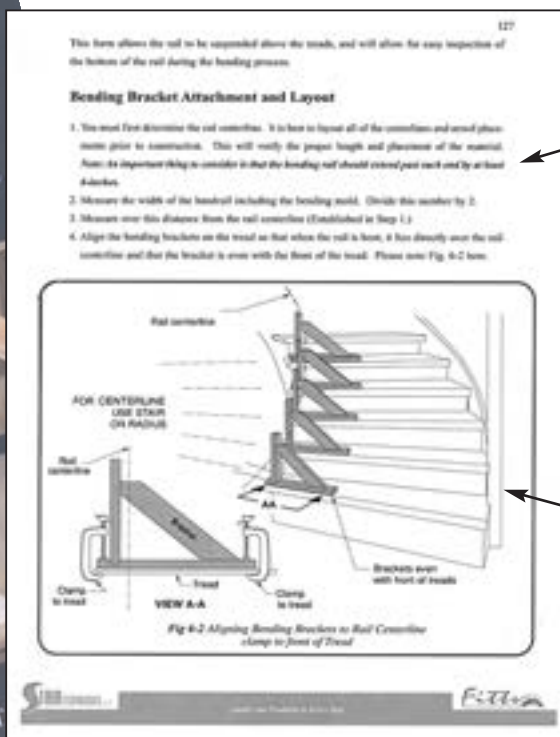
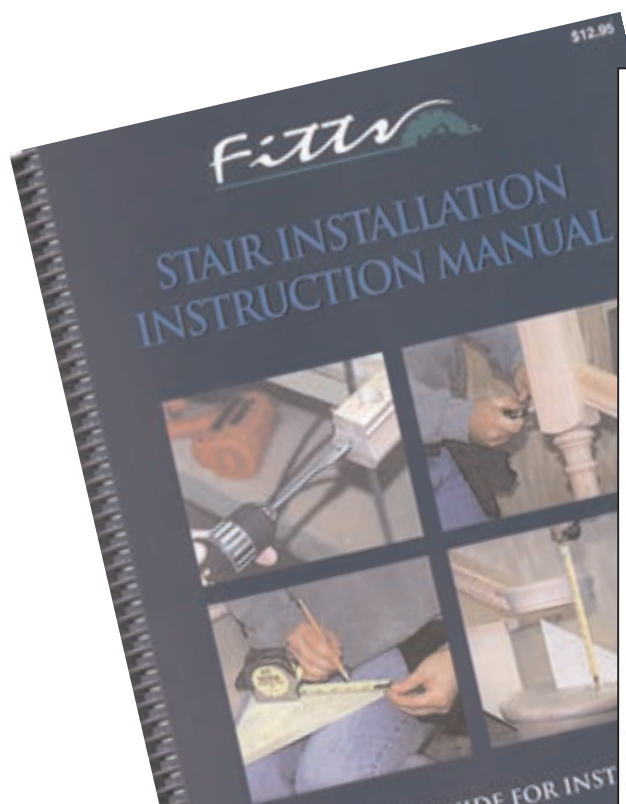


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Wood Species



Red Oak



Maple



Soft Maple



Poplar



Knotty Pine



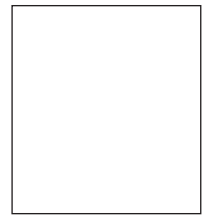
Cherry



Hemlock



Alder



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