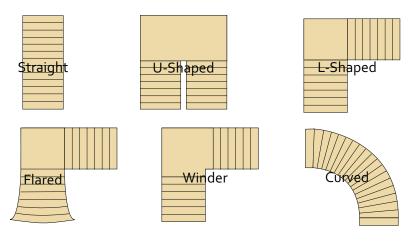
Designing Your Staircase

The staircase is the dramatic focal point of the entry. Stairbuilder and author, Andy Engel, wrote, "Formal stairs are as much like furniture as anything a carpenter does." It's important. Take time to plan its type, style, and design.

Type

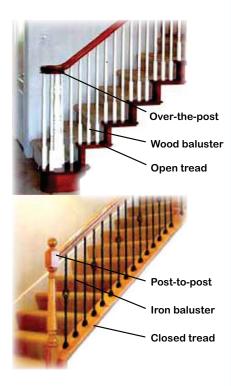
Your floor plan will determine what staircase type you can choose: straight, L-shaped, and more. So, plan early.



Style

Choose four elements of style:

- 1. Over-the-post (a continuous handrail over the newels) or Post-to-post (handrail is installed to the side of a newel's upper block).
- 2. Open tread (exposed treads and risers viewed from the side) or closed tread (hidden).
- 3. Solid or false tread, or Ascension's QwikTread.
- 4. Starting step and fittings.



Design

Now, you'll choose the newel, the balusters, the handrail, the wood species or iron finish, and the accessories (handrail brackets, rosettes). Create your unique design! Start now!





The Marriage of Iron and Wood

I ron balusters offer a host of benefits: durability, strength, unlimited shapes and sizes, elegance, and the ability to combine several styles tastefully. But iron needs the warmth and subtle glow of wood to soften its edges.

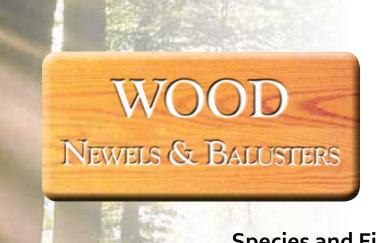
When iron and wood wed in a beautiful balustrade, their different qualities complement and accentuate each other by contrast. The balustrade imitates life.

Ascension Stair Parts® features this iron-wood combination on pages 10-15. If you can't find what you're looking for, call us; we'll do our best to find it.



"Faith is taking the first step even when you don't see the whole staircase."

Martin Luther King, Jr.



A wood staircase recalls visits to the lumber yard and the smell of freshly-cut wood. It's the awe of a majestic forest, the symmetry of a single tree, and the uniqueness of its grain. So, when you select wood, you bring your senses, memories, and experiences to bear on your selection.

Species and Finish

The following pages present styles. But keep in mind the wood species and finish as well. Stock species include oak, hard maple, poplar, alder, primed, European beech, and cherry. Availability varies between styles. Let's consider three species for their color, hardness, grain, and staining ability.

Quality	Red Oak	Hard Maple	Poplar
Color	Light to dark brown with reddish tinge	White to cream color	Pale greenish yellow
Hardness	Heavy, hard, resists denting	Heavy, strong, hard, and resistant to shock	Soft, but more resistant to dents than pine
Grain	Open-grain, cathedral figure	Closed, uniform, and straight grain	Close grain, includes purple or green color
Stain	Stains evenly; accents the grain pattern	Stains unevenly; best with light stain or clear	Stains unevenly, but paints well

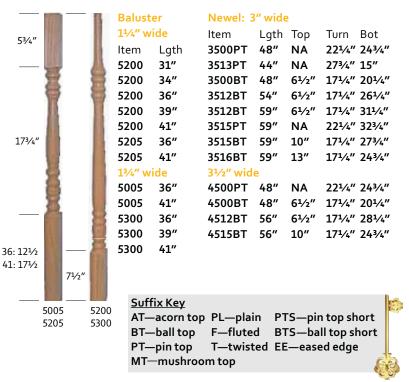


Stockbridge. Its simple, clean lines are timeless and elegant; traditional, but not heavy. Unique to this style, Stockbridge is offered in three different versions: smooth, fluted, and twisted. Post-to-post newels are acorn top.



Newel: 3½" wide						
Plain						
Item	Lgth	Тор	Turn	Bot		
3010PL	44"	NA	27"	16"		
3013PL	44"	NA	28³/4"	151/4"		
3015PL	56"	NA	27"	28"		
3042PL	56"	5"	23"	23"		
3045PL	56"	10"	18"	23"		
Fluted						
3010F	44"	NA	27"	16"		
3015F	56"	NA	27"	28"		
3042F	56"	5"	23"	23"		
3045F	56"	10"	18"	23"		
Twisted						
3010T	44"	NA	27"	16"		
3013T	44"	NA	28¾"	151/4"		
3015T	56"	NA	27"	28"		
3042T	56"	5"	23"	23"		
20/ET	EG"	10"	10"	22"		

Hampton. A classic turning with a bit more detail, perfect for a traditional home. Solid, yet refined, it gives your staircase class. Post-to-post newels are ball top (BT); over-the-post, pin top (PT). Ball finial is $3\frac{1}{2}$ " high.



Colonial. Colonial is Americana. It's always in style, and its 11/4" width is refined. Post-to-post newels are ball or mushroom top. Newels are available for kneewalls as well.

12	1	Balust	er
F3/#		1¹/₄" w	ide
53/4"		Item	Lgth
		5015	31"
I		5015	34"
1		5015	34"
31: 161/4		5015	36"
34: 183/4		5015	41"
36: 20¾	1 1	5015	43"
39: 23¾	- 1	5141	31"
41: 253/4		5141	34"
		5141	36"
1		5141	39"
	_/	5141	41"
81/4"	7½"		
		7	
514	1 50	15	

Mushroom Top Newel: 3" wide

	ор			
ltem	Lgth	Top	Turn	Bot
4010MT	48"	NA	27"	16½"
4012MT	54"	5"	23"	221/4"
4015MT	59"	10"	23"	221/4"
4040MT	48"	5"	23"	16½"
4042MT	54"	5"	23"	221/4"
4045MT	59"	10"	23"	22 1 /4"

Newel: 3" wide

Item	Lgth	Top	Turn	Bot
4010PT	48"	NA	27"	20"
4013PT	43"	NA	27"	16"
4010BT	48"	5"	23"	16½″
4012BT	54"	5"	23"	22 1 /4"
4015PT	59"	NA	27"	31"
4015BT	59"	10"	23"	22¹/₄"
4016BT	59"	13"	23"	19½"
4040BT	48"	5"	23"	16½"
4042BT	54"	5"	23"	22 1 /4"
4045BT	59"	10"	23"	22 1 /4"

Newel: 3½" wide

Newel. 3	Newel. 3 /2 Wide						
4020PT	48"	NA	27"	20"			
4020BT	48"	5"	23"	16½"			
4022BT	56"	5"	23"	24 1 /4"			
4025BT	56"	10"	23"	19½"			

Shorter turning for kneewalls

4010PTS	43"	NA	20½" 22½"
4010PTS	48"	NA	201/2" 261/2"
4013PTS	43"	NA	201/2" 221/2"
4010BTS	43"	5"	17½" 17¾"
4010BTS	48"	5"	171/2" 213/4"
4012BTS	54"	5"	171/2" 273/4"
4012BTS	59"	5"	171/2" 323/4"
4015BTS	48"	10"	171/2" 163/4"
4015BTS	59"	10"	171/2" 273/4"
4016BTS	48"	13"	17½" 13¾"
4016RTS	59"	13"	171/2" 243/4"



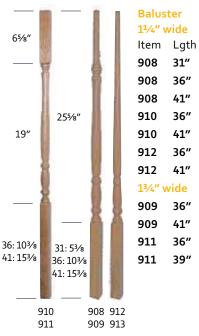




Bordeaux



Bordeaux. It's classic European with an American touch: graceful lines on a substantial baluster and newel. Combine painted balusters with stained handrail for contrast.



Newel: 3	" wide				
Item	Lgth	Тор	Turn	Bot	
953PT	44"	NA	23"	21"	
954PT	48"	NA	23"	24"	
954PT	59"	NA	23"	35"	
955BT	48"	5"	23"	153/8"	
955BT	54"	5"	23"	213/8"	
955BT	59"	5"	23"	263/8"	
958BT	48"	10"	23"	103/8"	
958BT	59"	10"	23"	213/8"	
956BT	48"	13"	161/2"	13¾"	
3½" wide					
954-4BT	48"	NA	23"	24"	
955-4BT	48"	5"	23"	15½"	

PL—plain	
EE—eased edge	
£	
	•

10"

231/2"

181/2"

23"

955-4BT 56"

958-4BT 56"

Craftsman



Craftsman. It offers the simple, honest, and natural lines of Arts & Crafts. It's style is timeless; it's look is strong. Favorite species include oak and maple.

Ва	Baluster		Newel: 3	" wid
11/	4" wi	de	Item	Lgth
lte	m	Lgth	300-48	48"
10	0	31"	300-54	54"
10	0	36"	300-59	59"
10	0	41"	300EE	43"
10	0EE	31"	300EE	48"
10	0EE	36"	300EE	54"
10	0EE	41"	3005BT	54"
13/	4" wi	de	3½" wid	
20	0	36"	350-48	48"
20	0	41"	350-56	56"
			4005AT	56"
			4005BT	56"
	Alla V		4½" wid	e
scension	Stair	Parts	450-48	48"
14			450-59	59"



Cabinetry for Your Stairs

What's the difference between a standard and a box newel?

standard newel is solid wood and Ltypically turned on a lathe. But a box newel is built in the same way you might build a cabinet: form a box, rout a design, and apply mouldings and panels.

A box newel dominates the staircase and draws the eye. So, if your staircase includes a box newel, select the newel design first, then move on to the baluster, handrail, and accessories.



Includes Flat & Peak Caps

Item	Width*	Lgth	Тор	Turn	Bot
960	41/2"	48"	6½″	17½″	21"
961	41/2"	56"	6½"	25½″	21"
962	31/2"	48"	6½″	NA	38½″
963	31/2"	56"	6½"	NA	46½″

Includes Both Caps & Mounting Block

991PL	6½″	56"	61/2"	25½"	21"
991FP	61/4"	56"	61/2"	25½″	21"
991RP	61/4"	56"	61/2"	25½″	21"
991F	61/4"	56"	61/2"	25½″	21"

Optional Pedestal for 962/963

959	41/2"	22"	NA	NA	NA

*Measured at base

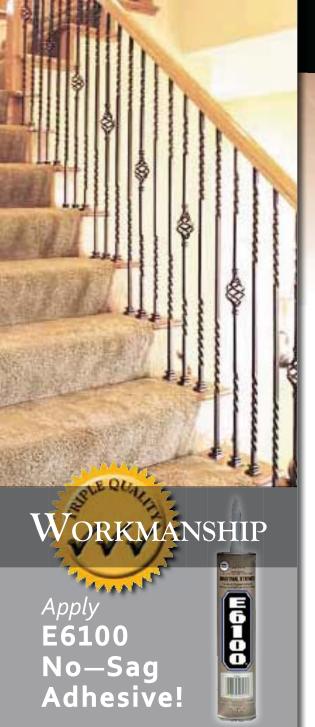
Suffix Key

PL—plain	RP—raised panel
F—fluted	FP—recessed panel



Interchangeable flat & peak caps





When installing your iron balusters in stage two (right), apply E6100 adhesive into the handrail hole. Most construction adhesives sag. But E6100 is formulated to eliminate sag or runs. It's also non-flammable, flexible, and waterproof. Apply enough to set the baluster; do not fill the hole.

Triple Quality Innovations

Replacing wood with hollow iron balusters?

Baljakkeeps it simple!

Designed to install ½" hollow iron balusters, the *Baljak* anchor simplifies installation: no shimming or scratched caps. *Baljak* applies to open-tread and knee wall applications, on both rakes and balconies. New installations or remodeling.

Easy Three-Stage Installation



1. Install Baljak anchor

- Using a ⁵/₁₆" driver, install *Baljak* anchor into the pilot hole.
- Place rubber gasket over exposed threading.

2. Install iron baluster

- Slip decorative metal shoe onto baluster (right).
- Apply E6100 adhesive into hole on underside of handrail.
- Push baluster's lower end onto *Baljak's* gasket, then pull baluster up into hole.



3. Adjust & secure

- While pulling up on baluster, handtighten nut to meet the baluster, then snug with a half turn of a wrench.
- Lower decorative shoe to cover *Baljak*.
- Tighten shoe's set screw.

Baljak Anchors & QwikTread



QwikTread Kits include stair parts—tread, riser, and riser edge moulding—for one complete step. Ascension[®] designed these kits for greatest flexibility.

- 12½" deep, 6-ply solid core treads for ample trimming and for superior stability.
- Riser is wood one side; primed, the other.
- Straight or returned ends, oak or maple.
- Returned treads are mitered both sides, allowing you to cut one end to make LH or RH without assembly.



• Packed: one step per box. Landing kits also available.

Installation

Prepare rough staircase

Remove stair nosing, making it flush with the riser.

2. Cut and install riser

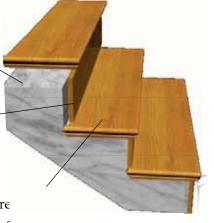
Apply construction adhesive to back and fasten with finishing nails.

3. Cut and install tread

Apply construction adhesive to back, pre holes, then fasten with nails or sacrews, ϵ

4. Apply riser trim moulding

Order this moulding separately.





QwikTread Kit Selection Guide



Wall to Wall w/Riser and Trim

QT48OAK 48", oak, straight
QT72OAK 72", oak, straight
QT48MAP 48", maple, straight
QT72MAP 72", maple, straight

Returned End w/Riser and Trim

QT48OAKMR 48", oak, returned
QT72OAKMR 72", oak, returned
QT48MAPMR 48", maple, returned
QT72MAPMR 72", maple, returned

Riser Only

QT48OAKRISE 48", oak, wood/prime
QT72OAKRISE 72", oak, wood/prime
QT48MAPRISE 48", maple, wood/prime
QT72MAPRISE 72", maple, wood/prime

Landing Kits

QT48OAKLAND 48" x 48", oak
QT72OAKLAND 72" x 72", oak
QT48MAPLAND 48" x 48", maple
QT72MAPLAND 72" x 72", maple

Nosina

QTNOSEOAK 75", oak QTNOAWMAP 75", maple



••• A habit cannot be tossed out the window; it must be coaxed down the stairs a step at a time."

Mark Twain



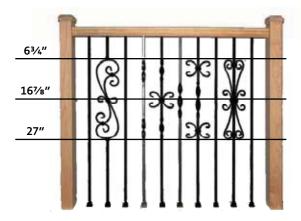
I ron balusters require less material than wood for support. So, a staircase with iron balusters appears more open and visible. It also displays more decocrative options.

But these options-scrolls, baskets, knuckles, and ribbons-can cause alignment and aesthetic problems without some serious math. Ascension® developed a solution: *Measurement Protocol.*

a+b is to a as
a+b a

- It combines decorative options with perfect alignment-top, centerpoint, and bottom.
- You enjoy the most pleasing decorative positioning.





Ascension® Measurement Protocol





Twist & Basket. The most popular style, it lends itself to a classic combination of single, double, and basket designs. Take advantage of iron's inherent compatibility with several designs.

Square L		
Description	1/2"	5/8"
Single twist	T-02	2G-02
Double twist	T-03	2G-03
Single basket	T-04	2G-04
Double basket	T-05	2G-05
Butterfly & Leaf Scroll	T-55	so

SO: Special Order



Plain & ZZ. They're simple and contemporary, and complimented by the warmth of wood newels, such as the Craftsman style. But iron blends well with virtually any newel style.

Because iron balusters are thinner than wood, they typically require three on each step in order to pass the 4" sphere test: a 4" sphere cannot pass through any part of the balustrade.

International Residential Code

Square

Description	1/2"	5/8"
Plain	T-01	2G-01
Plain basket	T-18	so
Zigzag (ZZ)	T-ZZ	so
Heart Scroll	T-58	so

SO: Special Order



2G-60

Uniform length of all iron balusters: 43¾", including the ¾" round top.

Iron finishes: page 16

Square 🗖

Description	1/2"	5/8"
Single knuckle	T-60	2G-60
Double knuckle	T-61	2G-61
Double knuckle single basket	T-62	so
S Scroll	T-56	so

SO: Special Order

Plain & ZZ



Knuckle







Square **Description** 5/8" Sgle ribbon T-06 2G-06 Dble ribbon T-07 2G-07 Sgle basket T-08 SO Dble basket T-09 SO Sgle butterfly T-10 SO

Dble butterfly T-11

SO: Special Order

so

Uniform length of all iron balusters: 43¾", including the ¾" round top.

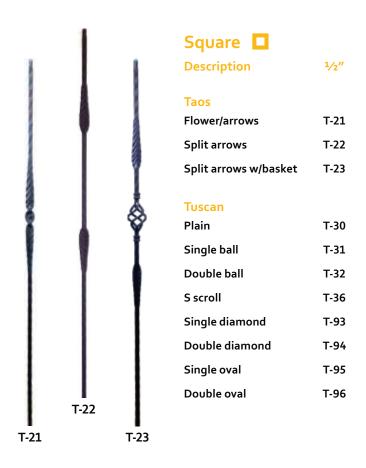
Iron finishes: page 16



Gothic. Avilable in ½" thickness only, to showcase its elegance. But all other square balusters are offered in both ½" and ½" thicknesses.

You might characterize ½" as Old World Charm; 5/8", as Bold & Beautiful. The 5/8" is more robust and is compatible with both the 3" and 3½" newels.

Square 🗖	
Description	1/2"
Plain	T-40
Single knuckle	T-41
Double knuckle	T-42
Single basket, knuckle	T-43
Single collar	T-45
Double collar	T-46
Single basket collar	T-47



Taos and Tuscan. Unlike Round's lathe-like precision, Taos and Tuscan feature hammered edges for a handmade appearance. Taos' arrow motif recalls America's southwest heritage. Tuscan offers classic ball, diamond, and oval designs.





Round



Knuckle
Ribbon
Collar & Basket
Hammered Ball
Contemporary



Ascension® welcomes your request for quotations. Also, we will do our best to find what you want: custom wood species and styles, and restoration parts.

Round. It bears the refined, precise look of a metal lathe. Its $\frac{5}{8}$ " thickness makes it *Bold & Beautiful*. Choose from four styles to create either a contemporary or traditional look.

Uniform length of all round iron balusters: 43"

Iron finishes: page 16



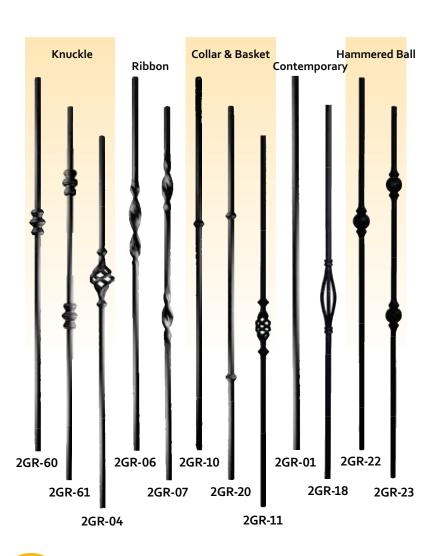
Round • Description 5/8" Plain & Knuckle Single knuckle 2GR-60 Double knuckle 2GR-61 Basket 2GR-04 Ribbon Single ribbon 2GR-06 Double ribbon 2GR-07 Collar & Basket Single collar 2GR-10 Double collar 2GR-20 Basket 2GR-11 Contemporary Single basket/collar 2GR-04 Single basket/colar 2GR-18 **Hammered Ball**

Single ball & collar

Double ball & collar

2GR-22

2GR-23



Scroll Panel. A scroll panel is formed by combining two identical scrolls. They adjust to the staircase rake. Choose between 3 sizes and follow 4 simple steps:





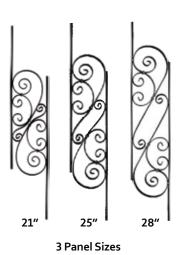












Panel Combinations

Order two scrolls of the same type and size to form a panel:

1/2" Square

T21S-21"

T25S-25"

T28S-28"

5/8" Round

2GR-21S 21"

2GR-25S 25"

2010-255 25

2BR-28S 28"

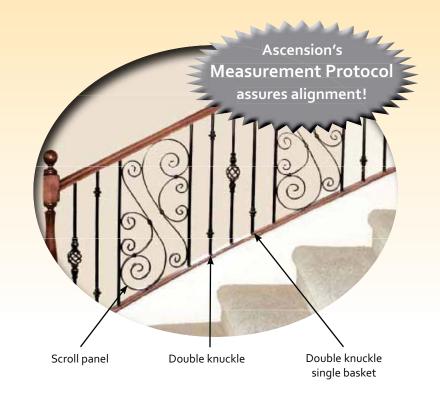


Combining Iron Baluster and Scroll Styles

Different iron baluster styles blend well together on the same staircase. The following guidelines will help create a pleasing combination and pattern.

- 1. Find examples in photos or in homes.
- 2. Combine any styles you like.
- 3. Set up a repeat pattern.
- 4. Work within 1 or 2 style families.

 Staircase at right combines 3 different balusters from 2 families.
- Confirm finish availability of style families before making a final decision.



Handrail and Brackets

Plowed and bending rails are also available



6010 2½"w x 2¾"h



6210 25/8"w x 23/8"h



6910 25/8"w x 23/8"h



6042 2½"w x 1½"h



8200 25/8"w x 21/4"h



8500 25/8"w x 23/8"h



9100 2½"w x 2¾"h

RC



Model Material
3002HD Zinc Alloy

3003 Zinc Alloy3003LA Zinc Alloy3004 Solid Brass

2³/8"
2³/4"
3¹/8"
5 2⁵/8"

Reach

• •

•

• •

DC

• • •

•

Finish Cross Reference

AB (US5)—Antique brass BB (US3)—Bright brass BC (US26)—Bright chrome DB (US26D)—Dull chrome
ORB (US10B)—Rubbed bronze
RC—Rubbed copper

SB—Satin black
SN (US5)—Satin nickel
WH—White

Iron Accessories and Finishes

Square



Straight, alum SH900—½" SH901—½" * 2G900—5%"



Angle, alum SH904—½" SH905 —½" * 2G904—5/8"



SH906 straight ½" alum surface-mount



SH800 straight ½" alum w/o set screw



SD900 straight 1/2" cast iron w/set screw



SD904 angle ½" cast iron



KN500 knuckle ½" alum

Round



SD500R straight 1/2" cast iron



SD504R angle ½" cast iron



2GR900 straight 5/8" aluminum



2GR904 angle 5/8" aluminum



*To be used with 1/2" hammered balusters

C1 collar 5/8" round



5/8" round



2G Short Plug



T Plug



Baljak Anchor see page 8



Dowel Screw Plugs

Prefix Key
SH—aluminum
SD—cast iron

KN—knuckle C—collar

2G—⁵⁄8" baluster

CV Copper Vein

NKL Nickel AN Antique Nickel RB Rubbed Bronze PEW Pewter RC Rubbed Copper SV Silver Vein SB Satin Black

Installation Kits and Materials

Newel Fastener Kits



4JS Newel Mounting Kits

Species	3"	31/2"	5"
Cherry	3009CHE	3010CHE	SO
Maple	3009MAP	3010MAP	3011MAP
Oak	3009OAK	3010OAK	30110AK
Poplar	3009POP	3010POP	3011POP
White	SO	3010WOAK	SO



101 Sure-Tite **Newel Fastening** System Includes: 11" lag bolt, oak & maple wood plugs, washer, and nut



EZLock Newel Fastener KeyLock Concealed Newel **Fastener**

Plugs and Rail Bolt Kits



Button Plug 3012BPBRCH

½" birch

Tapered Wood Plugs

Species	1/2"	5/8"	1"
Cherry	so	3058CHE	3001CHE
Maple	SO	3058MAP	3001MAP
Oak	3012OAK	3058OAK	3001OAK
Poplar	3012POP	3058POP	3001POP
EuroBeech	SO	3058EBCH	3001EBCH
Birch	3012BPBRCH	SO	SO
Alder	so	SO	3001ALD
Walnut	so	SO	3001WAL



RBKIT Rail Bolt Kit Hanger bolt, curved washer, nut, and plug



E6100 No-Sag Adhesive E6100 clear







Screws, Bolts, and Drivers



Hanger Bolt HB516250 5/16" x 21/2" Fully-threaded

Rail Bolt **Center Cone Pt**

RB51635 5/16" x 31/2" RB51650 5/16" x 5"

Nut Driver

1/4" DSDRIVER14 5/16" DSDRIVER516 5/16" HBDRIVER516



Curved Plastic Washer 2811 5/16"



Rail Bolt Flange Nut RBFLANGENUT 5/16" Allen Wrench ALLENWRENCH 2.5 mm



Rosettes and Tread Brackets



Rosettes

Species	Round	Oval	Rectangle
Cherry	SO	7037CHE	SO
Maple	7017MAP	7037MAP	7033MAP
Oak	7017OAK	7037OAK	7033OAK
Poplar	7017POP	7037POP	SO
EuroBeech	SO	7037EBCH	SO

Tread Bracket



Fittings, Starting Steps, False Tread

Starting Fittings 47/8" 27/8" center center 38 30LH/35RH * 40LH /45RH 41LH/46RH Starting Easing w/Cap Vertical Volute Volute Turnout Turnout

Transition Fittings



09 Returned End



15LLH/15R RH S w/10" legs



Level Qtr Turn 90°



Opening Cap



11A Level Qtr Turn 135°



Tandem Cap



12 Up Easing 60°



21 Otr Turn w/Cap



13 Over Easing



21A Otr Turn w/Cap 135º



Up Easing 90°

Gooseneck Fittings*





88-2 2-Rise w/Tandem Cap



97 2-Rise Straight w/End Cap



99 2-Rise Straight Mitered



99R 2-Rise Straight Rounded





81LH/86RH 2-Rise w/Cap



8110 Starting Step, Bullnose One End



Starting Step, Bullnose Both Ends

False Tread



8110-2 False Starting Step



8171 LH or RH Tread Cap w/Return Nosing & Cove



8176 Riser Cap



8271 Universal Tread and Riser Kit

Notes

- Handrail prefixes. Add handrail prefix when ordering fittings (right).
- Volutes. Ascending arm volutes also available in low, medium, and high.
- Gooseneck fittings. Includes one #12, 60° Up Easing (right), along with connection hardware and plugs. If 1-Riser is needed, please cut vertical gooseneck to proper length.

8172

TreadCap

• Starting steps. Other configuration starting steps available on special order.

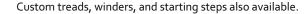


Handrail and Prefix

6210	72	8500	85
6910	69	9100	91
8200	82	6042	NA

Treads, Risers, Lineals, Transitions, Mouldings

Treads, Risers, & Shoe Rail





8070 Tread: Solid & Core Stock & Special Species



8070MTR Mitered Return One Side



8078 Riser: Solid & Core Stock & Special Species



8080-13" L/R Nosing



6045—11/4" 6046—13/4" Shoe rail

Stair Lineals



S4S Boards



6050—11/4" 6052—13/4" Fillet



8120—1/2" x ¹³/16" Shoe



81// Nose/cove



8093—3½" 8095—5½" Landing Tread



8196—½" x ¾" Cove



8198—7" Wall Cap

Floor Transitions



2000—½" x 1½" Reducer



2175—7/8" x 13/4" Reducer



2333—5/8" x 2" SM T-Moulding



2343—3/4" x 2" LG T-Moulding



3000—3/8" x 1½" Carpet Binder



3012—5/16" x 11/2" Small Reducer



3112—5/16" x 2" Mini Reducer



3122—½" x 2"
Medium Reducer



3214—3/4" x 21/4" Large Reducer



3314—7/8" x 21/8" Large Overlap



5112—5/16" x 11/2" Mini Threshold



5120—5/8" x 33/8" LG Threshold



9142—5/8" x 15/8" SM Sq Nose Reducer



9152—5/8" x 2" Med Sq Nose Reducer



9172—7/8" x 2" Lg Sg Nose Reducer



Spline—1/4" x 1/2"



Additional profiles are also available.

Wall Mouldings



6141—3/8" x 13/8" Flat back/bending Panel Mould



6143—5/8" x 13/8" 1/4" rabbet Panel Mould



6144—1/2" x 13/8" 1/2" rabbet Panel Mould



8120—½" x ¹³/16" Shoe



8634—3/8" x 3" 8636—3/8" x 31/4" 8620—3/8" x 4" Baseboard

6 Two things are bad for the heart: running up stairs and running down people." − Bernard Baruch