

## Custom Stair Parts

 Possibilities? Endless.Creative Stair Parts is your partner for custom, speciality stair projects with the largest assortment of exotic and domestic woods available.

# Table of contents 

## Coreative ©ftair $\mathscr{O}_{\text {Rits }}$

Quick Reference ..... 4-7
Iron Collections ..... 8-31
Iron Finishes ..... 8
Plain ..... 9
Knuckles ..... 10-11
Baskets \& Twists ..... 12-13
Ribbon Twists ..... 14-15
Collars ..... 16-17
Spheres ..... 18-19
Eyelets ..... 20-21
Dart \& Feather ..... 22
Butterfly Ribbon ..... 23
Scrolls ..... 24
Belly ..... 25
XL Balusters ..... 26-27
Iron Newels ..... 28-29
Iron Accessories ..... 30-31
Epoxy ..... 31
Wood Collections ..... 32-53
Wood Species ..... 33
Box Newels ..... 34-35
Carolina ..... 36-39
Hampton ..... 40-43
Craftsman ..... 44-47
Colonial ..... 48-53
Rails \& Fittings ..... 54-57
ZipBolt ${ }^{\text {TM }}$ Fitting Hardware, Fas-n-Fast ${ }^{\text {TM }}$ Newel Fastening System ..... 54
Hand Rail ..... 55
Shoe Rail ..... 55
Fillet ..... 55
Wall Rail ..... 55
Fittings ..... 56-57
Steps \& Accessories ..... 58-65
Starting Steps ..... 58-59
RetroTread and RetroRiser ..... 60-61
Treads ..... 62
False Step Components ..... 63
Hardware ..... 54, 64
Accessories ..... 65
Ordering Guidelines ..... 66-69
Stairway Anatomy ..... 70
Definitions ..... 71

## Wood Quick Reference

## Balusters



Over the Post Newels


## Wood Quick Reference

## Post to Post Newels



Pg. 38/39


Pg. 39

Pg. 39
Pg. 39

##  <br> 4500 <br> P. $42 / 43$



8-4500
Pg. 43






$\begin{array}{r}\text { Pg. } 4004 \\ \hline\end{array}$

## (1) <br> R-4004 <br> Pg. 47





4180
Pg. $52 / 53$

## Box Newels



## Iron Quick Reference

## Iron Balusters

Smooth
$\mid$

Hammered Edge
Hammered Face


## Iron Quick Reference

## Iron Balusters

Round Shaft


XL Iron Balusters

Smooth

3/4" Shaft



[^0]640
Pg. 29

## Iron collections

## Oreative ©tair $\mathscr{O}$ arts



Available Finishes


## Plain collection



## Knuckle collection

## 



## Knuckle collection



# Basket \& Twist collection 

## Oreative ©tair Orts



# Basket \& Twist <br> <br> collection 

 <br> <br> collection}

Oreative ©tair Oarts


# Ribbon Twist collection 

## Oreative $\mathscr{O}$ tair $\mathscr{O}$ arts



# Ribbon Twist collection 

Oreative ©tair ©arts


## Collar collection

## Oreative (Atair $\mathscr{O}_{\mathrm{R} \text { rts }}$



## Collar collection



17

## Sphere collection

## Oreative $\mathscr{O}$ tair $\mathscr{O}_{\mathrm{Rrts}}$




## Eyelet collection

## 



## Eyellet



## Dart \& Feather collection

Oreative Otair OPrts


## Butterfly Ribbon collection



23

Scroll collection


## Belly collection



# XL Baluster collection 

## Greative Etair OArts



# XL Baluster collection 



## Iron Newel collection

Greative $\mathscr{C}$ tair $\mathscr{O}_{\text {arts }}$


## Iron Newel collection



29

## Iron Accessories

## Granice fiririss

Flat Shoe $\square$ Square Shaft Round Shaft


06

## Baluster Flat Shoe

1/2" Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |

XL06
3/4" Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| $V$ |  |  |  |  |

07
9/16" Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |

$\square$

020
Baluster Shoe
1/2" Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ |  | $\checkmark$ | $V$ | $V$ |

$\square$



799
Baluster Flat Shoe 9/16" Round Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ |  | $V$ |  |  |

$\bigoplus$

797
Baluster Flat Shoe 1/2" Center

 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| :--- | :--- | :--- | :--- | :--- |



S-SHOE
Baluster Shoe
1/2" Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| Black Synthetic Only |  |  |  |  |

$\square$

RD201
Baluster Shoe
Adjustable Center
1/2" to 9/16" Square or Round

| SB | AB | ORB | ORC |
| :---: | :---: | :---: | :---: |


| $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| :--- | :--- | :--- | :--- | :--- |

$\prod_{-O R-} \bigoplus$


MB
Metal Newel Fastener
Smooth

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| $V$ |  |  |  |  |

MB2
Metal Newel Fastener -
Hammered Edge / Face

| SB | AB | ORB | ORC | SV |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

$\square$

## Iron Accessories

## 

## Rake Shoe

$\square$ Square Shaft $\square$ Round Shaft

02
Baluster Rake Shoe
1/2" Center


XL02
3/4" Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |

03
9/16" Center

| SB | AB | ORB | ORC | SV |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |




792
Baluster Rake Shoe 9/16" Round Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| $\sqrt{ }$ |  | $\sqrt{ }$ |  |  |

$\bigoplus$


S-SHOE-R
Baluster Rake Shoe
1/2" Center

| SB | AB | ORB | ORC | SV |
| :---: | :---: | :---: | :---: | :---: |
| Black Synthetic Only |  |  |  |  |

$\square$
$\square$ Square Shaft $\square$ Round Shaft


## Epoxy



## Wood collections

## Oreative $\mathscr{O}$ tair $\mathscr{O}_{\text {R }}{ }^{\circ}$



# Wood species 

## Coreative $\mathscr{\mathscr { A }}$ tair $\mathscr{Q}_{\text {Rrts }}$




Alder


Beech


Hickory


Cherry
Birch



Yellow Pine



Brazilian Cherry


Mahogany


Additional species available.
Call for details.

## Box Newel collection

## Coreative $\bigodot$ tair $\mathscr{Q r a r t s}^{\circ}$



# Box Newel collection 

Oreative Otair@arts


## Carolina <br> collection

## Oreative $\mathscr{O}$ tair $\mathscr{O}_{\mathrm{arts}}{ }^{\circ}$



# Carolina collection 

## Coreative ©tair $\mathscr{Q r a r t s}^{\circ}$

## P6210

Plowed Hand Rail Oak

2005
Carolina
Square Top Baluster
34" | 38" | 42"
Oak

3040
Carolina Starting Newel 48"
Oak

## Carolina collection

## Coreative $\mathscr{O}$ tair $\mathscr{Q}_{\text {arts }}$




6400


6519


6006
Newels I Over the Post



6006
Newels I Post to Post


38

## Carolina collection

Oreative tair Oarts



Newels I Over the Post




Newels I Post to Post


## Hampton collection

Oreative ©tair $\mathscr{O}$ arts


## $\underset{\text { collection }}{\text { Hampton }}$

Orative ©fair ஜits

## 4270 <br> Hampton <br> Starting Newel <br> 43" <br> Oak

5300
Hampton
Pin Top Baluster
34" | $38^{\text {" }}$ | 42"
Primed


6210
Hand Rail Oak

## Hampton collection

## Coreative $\bigodot$ tair $\mathscr{Q r t s}^{\circ}$




6006
Newels I Over the Post

28"


|  | Starting |
| :---: | :---: |
| 4270 |  |
| $43^{\prime \prime}$ |  |
|  | $50^{\prime \prime}$ |

Landing
4275
58 "

## Hampton collection



Pin Top Balusters 1 manceseme win removable pin

Square Top Balusters I ballster come with removable pin

Newels I Over the Post


Newels I Post to Post


## Craftsman collection

## Oreative $\mathscr{O}$ tair $\mathscr{O}_{\text {Rrts }}$



# Craftsman collection 

Oreative ©tair $\mathscr{O}$ arts

M-4004
Craftsman
Mushroom Top
Starting Newel 48"
Oak (painted)
5360
Craftsman
Square Baluster
$34^{\prime \prime}$ | 38" | 42"
Primed

P6210
Plowed Hand Rail
Oak

## Craftsman collection

## COreative $\bigodot$ tair $\mathscr{O}^{2}$ ats

Balusters | 1-1/4"


P6010


6000


6002


6000F


6000S

Balusters | 1-3/4"


## 6001S

## Newels I Post to Post





# Craftsman collection 

## Balusters | 1-3/4"



## Newels I Post to Post



## Colonial collection

Oreative $\mathscr{O}$ tair $\mathscr{G}$ arts


# Colonial collection 



B4040
Colonial
Starting Newel
48"
Oak

5067
Colonial Square Top Baluster 34" | 38" | 42" Oak


P6010
Plowed Hand Rail Oak


## Colonial collection

## (Oreative ©tair $\mathscr{Q r a r t s}^{\circ}$

## Pin Top Balusters I mistesemem removable pin



## Newels | Post to Post

# Colonial collection 

Pin Ton Balusters I valuster ome with removable pin

Square Top Balusters
balusters come with removable pin


Newels | Post to Post

| $E$ | 3 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 51 |  | $10^{\prime \prime}$ | 14-1/2" | 51 |
|  |  |  | 23-1/4" |  |  |  | 23-1/4" |
|  |  | 17-1/8" | 23-1/8" | 29-1/8" | 29-3/8" | 24-7/8" | 41-1/8" |
| Plain | Fluted |  |  |  |  |  |  |
|  |  |  | Starting |  | Landing | Int | liate |
|  |  | 4040 | 4042 | 4043 | 4045 | 4046 | 4048 |
|  |  | 48" | $54{ }^{\prime \prime}$ | 601 | 60" | 60" | 72" |

# Colonial collection 

## (Oreative ©tair $\mathscr{Q r a r t s}^{\circ}$

Pin Top Balusters $\begin{gathered}\text { baldseds anne vith } \\ \text { ramorade on }\end{gathered}$


Newels | Over the Post


52

# Colonial collection 

Pin Top Balusters $\sqrt{\text { balistas ane with }}$


Newels | Over the Post


Square Top Balusters I balsises cone with removable pin

Newels | Post to Post




Install Fittings... Easily

1. Pre-drill your holes.

2. Install Threaded Shaft into the fitting using a 7 mm wrench. Apply a thin coat of glue to the joining ends, ensuring a tight bond.

3. Slide the Threaded Lead into the pre-drilled hole and Gear Head. Tighten using a 5 mm driver ("3011-DR pictured below) or allen wrench.
Finish with a 1" wood plug ("3000).


7mm Hex... Install the threaded shaft into the fitting using a wrench or deep well socket.

Threaded Lead... Holds the gear head in place for secure tightening.

Gear Head... Single piece gear head allows you to tighten your fitting to the rail with a drill driver or allen wrench.

## Fas* $n=$ Fast <br> Newel Fastening System

1. Using a 2 " hole saw, drill a hole in the base center of your newel post. Use a router to bore out the hole to $13 / 16$ " deep. Drill your pilot holes and attach Fas-n-Fast ${ }^{\text {tm }}$ using \#10 (3-1/2") galvinized deck screws (not included).
2. Mark center for the finished location of your newel. Secure Fas-n-Fast ${ }^{\text {t" }}$ to floor joist using \#10 ( $3-1 / 2^{\text {" }}$ ) galvinized deck screws (not included). NOTE: If installing Fas-n-Fast ${ }^{\text {tw }}$ on a starting step, place a block below the finished location of the newel and secure Fas-n-Fast ${ }^{\text {t" }}$ to the block.
3. Thread the newel post, roating clockwise, to the installed bottom portion of your Fas-n-Fast ${ }^{\text {t" }}$ hardware.



## Fittings ziljerat <br>  <br> Install Fittings...Easily! <br> see page 54 and 64

## Matching Hand Rails

To match the selected hand rail, the second digit indicates the matching profile


## Caps and Easings



## Fittings

## Orative ©fair $\mathscr{O}_{\text {Its }}$

## Goosenecks



## Bending Rails

## Bending mould included on all bending rail



B6010
7 Slices
Radius: 30" on Rake 36" on Level


B6210
9 Slices
Radius: 30" on Rake 36" on Level


B6519
8 Slices
Radius: 54" on Rake 60" on Level

## Wall Rails




7023
Quarter Turn

## Starting Steps

## 

Each step is shipped with the necessary cove and shoe moulding to achieve a finished look.
Standard length is $48^{\prime \prime}$. Longer lengths are also available.
Over the Post System - Standard Volutes and Turnouts:
Hand Rail: 6010 | 6210 -USE- Starting Step: 8010 | 8015 | 8015A I 8015B
Hand Rail: 6400 I 6519 -USE- Starting Step: 8310 I 8315


8010
Reversible Starting Step $10-1 / 2^{\prime \prime} \times 48^{\prime \prime}$


8310
Reversible Starting Step
$11-1 / 4^{\prime \prime} \times 48{ }^{\prime \prime}$


8015B
Bowed Adjustable Starting Step $48^{\prime \prime}$ to $54^{\prime \prime}$


The bowed 8015 adjustable step is trimable within a $6^{\prime \prime}$. range. Throat opening begins with a smaller width but is trimable to larger width.

## Starting Steps

## Oreative $\mathscr{O}_{\text {fair }} \mathscr{O}_{\text {Its }}$



8015
Double Bullnosed Starting Step $10-1 / 2^{\prime \prime}$ x $48^{\prime \prime}$


8315
Double Bullnosed Starting Step $11-1 / 4^{\prime \prime}$ x 48"


## RETROTREAD RETRORISER

## Greative ©tair Orarts



# RETROTRAD 

US Patent \#8,141,321 B2 and D661,816 S
and other patents pending
RETRORISER
Upgrade your steps from carpet to beautiful hardwood

- Solid Hardwood
- Minimal impact on rise
- Superior construction
- Extra-long cove covers imperfections


# RETROIREAD RETRORISER 

## Coreative $\bigodot$ tair $\mathscr{Q}_{\text {arts }}$

RetroTread ${ }^{\circledR}$<br>5/8" x 11-1/2"<br>36" | 42" | 48" | 60"<br>Red Oak I White Oak<br>Hard Maple I Poplar<br>Hickory I Brazilian Cherry



RetroTread ${ }^{\circledR}$
Reversible Return Nosing 5/8" x 14-3/4"

Red Oak I White Oak Hard Maple I Poplar Hickory I Brazilian Cherry

RetroRiser ${ }^{\ominus}$
11/32" x 7-1/2"
36" | 42" | 48"
Red Oak I White Oak
Hard Maple I Primed White Poplar Hickory I Brazilian Cherry

## Treads \& Risers

## 

## Treads

8070MR
Reversible Mitered Return Tread
$1-1 / 32^{11} \times 10-1 / 2^{11}$
42" | 48"

$1-1 / 32^{\prime \prime} \times 11-1 / 2^{\prime \prime}$
$42^{\prime \prime}\left|48^{\prime \prime}\right| 54^{\prime \prime} \mid 60^{\prime \prime}$


8070MR2
Double Mitered Return Tread
$1-1 / 32^{\prime \prime} \times 10-1 / 2^{11}$
48"

1-1/32" $\times 11-1 / 2^{\prime \prime}$
42" \| 48" \| 54" | 60"


8070
Plain Tread
1-1/32" x 10-1/2"
$36^{\prime \prime}\left|42^{\prime \prime}\right| 48^{\prime \prime}|54 "| 60 "$

1-1/32" $\times 11-1 / 2^{\prime \prime}$


## Risers

## False Step Components

## Graive frir ©its

## False Step Components

8179
Double Mitered Return False Tread and Riser Kit 7-1/2" x 12-1/2"

8279
Double Mitered Return
False Tread and Riser Kit
$7-1 / 2^{11} \times 13-1 / 2^{11}$
Open Stairway

8010-2
False End Starting Step Cove and Shoe Included

8172
False Tread / Riser Kit $6^{\prime \prime} \times 11^{1 "}+$ Nose

Closed Stairway


Use a false end starting step when carpeting the center of a stairway.

63

## Hardware

## 

## Newel Mounting Hardware



## Rail Fasteners and Hardware

3044
Rail Bolt Wrench

## Baluster Hardware and Tools



## Accessories

## Orative ©fair ஜits

## Wall Rail Bracket



3002H
Wall Rail Bracket
Wall to Centerline: 2-3/4"
Brass \| Satin Nickel \| Chrome I Black

## Tread Brackets

## Mouldings

8080
Nosing
$1-1 / 4^{17} \times 1-1 / 32^{\prime \prime}$

## Rosettes


站

7037


## Coreative ©tair $\mathscr{R}^{2}$ rts

| 1. | Skirtboard |  | Select skirtboard at 13" per tread plus any additional length beyond the first and last risers. |
| :---: | :---: | :---: | :---: |
| 2. | Treads | pg. 62 | Select one tread for each step. <br> Open single stair: Select reversible mitered-return tread, adding 1-1/4" to the skirtboard to skirtboard measurement, then refer to the next longest length. <br> Open both sides: Select double mitered-return treads (measure from finished outside to outside of the skirtboard). <br> If carpet will be utilized, see false treads on page 63. |
| 3. | Risers | pg. 62 | Select one riser per step. For each flight of stairs, select one more riser than treads per flight to accommodate landing tread. If carpet will be utilized, see false risers on page 63. |
| 4. | Landing Tread | pg. 63 | For the width of stairs at each landing and the entire balcony, select sufficient lineal footage of landing tread. 8091 is suitable for all newels up to $4^{\prime \prime}$. <br> Note: The use of box newels may require an additional wood strip. |
| 5. | Cove Mould | pg. 63 | Under all treads and landing treads (including mitered-returns), select sufficient lineal footage of cove moulding. |
| 6. | Starting Newel | pg. 34-53 | 30" - 34" rake height: Use a 48 " starting newel. <br> 34" - 38" rake height: Use a 58" starting newel - OR- A box newel may be used. See Newel Length Applications for a Post to Post Stairway on page 67. <br> Note: If the stairway will be open on both sides, two newels are required. |
| 7. | Rake Newel |  | Use in the middle of a long hand rail run on the rake for added strength. Does not require a hand rail fitting. |
| 8. | Intermediate Newel |  | When not using a gooseneck, use an intermediate newel with a 14-1/2" top face. <br> When using a gooseneck, use an intermediate newel with a $5^{\prime \prime}$ top face. See Newel Length Applications for a Post to Post Stairway on page 67. <br> If using box newels, select an intermediate box newel. |
| 9. | Landing Newel |  | 36 " balcony height: When not using a gooseneck, use a newel with an 11 "top face. <br> 42 " balcony height: A gooseneck is required. Use a 48 " newel with a $5^{\prime \prime}$ top face for surface mount when using a gooseneck. Where the newel is to extend below the floor surface, use a 58 " newel with a 5 " top face. <br> If using a box newel, either a box newel or intermediate box newel may be used. |
| 10. | Level Run Newel |  | Place a newel at every corner of the level run. If the run is 10 feet or more, place a newel at the midpoint of the run, or every 5 to 6 feet. <br> Note: the newel should match the style selected for the transition from rake to level or rake to rake. |
| 11. | Rosettes | pg. 65 | Use a round rosette where the rail meets the wall on a level run. Use an oval or rectangular rosette for all angled rail to wall connections. |
| 12. | Newel Mounting Hardware | pg. 64 | Select a newel mounting kit for each newel post. |
| 13. | Rake Balusters (three length system) Open Stairway Wood | pg. 36-53 | 30" - 34" Rake Height: <br> On each tread, use a $34^{\prime \prime}$ baluster for the first baluster and $38^{\prime \prime}$ balusters for the second and third. If using three balusters and a fitting, substitute a 42" baluster for the third baluster under each gooseneck. <br> 34" - 38" Rake Height: <br> On each tread, use a $38^{\prime \prime}$ baluster for the first baluster and a $42^{\prime \prime}$ baluster for the second. If using three balusters, use a 38 " for the first and second balusters, and a 42" for the third. <br> Note: When using three balusters per tread for $34^{\prime \prime}-38^{\prime \prime}$ rail height, the $42^{\prime \prime}$ baluster may not be long enough for use under a gooseneck. |
|  | Rake Balusters (five length system) <br> Open Stairway Wood |  | 30" - 34" Rake Height: <br> Use a 34 " baluster as the first baluster on the tread, a 36 " baluster as the second, and a 39 " baluster as the third. <br> 34" - 38" Rake Height: <br> When installing two balusters per tread, use a $36^{\prime \prime}$ baluster as the first baluster on each tread, and a 42 " baluster as the second. When installing three balusters per tread, use a $36^{\prime \prime}$ baluster as the first baluster on each tread, a $39^{\prime \prime}$ baluster as the second, and a 42 " baluster as the third. <br> Note: When using three balusters per tread for 34 " $-38^{\prime \prime}$ rail height, the $42^{\prime \prime}$ baluster may not be long enough for use under a gooseneck. |
|  | Rake Balusters Open Stairway Iron | pg. 8-27 | 30" $-34^{\prime \prime}$ and 34" - 38" Rake Heights: <br> Use two or three 44 " iron balusters per tread, trimming from the bottom to length. If an alternating pattern is desired, remember to keep that pattern in mind as calculating the number of balusters needed per stair. <br> Note: Depending selected style, three balusters may not fit on a single tread. Check building codes for spacing compliance. |
|  | Rake Balusters Kneewall Wood | pg. 36-53 | Placed on 4 " to 6 " centers, select the shortest available baluster at a rate of two or three balusters per tread. Subtract one baluster from the total number of balusters required (the starting newel replaces one baluster). |
|  | Rake Balusters Kneewall Iron | pg. 8-27 | Placed on 4 " to $6^{\prime \prime}$ centers, select the desired balusters at a rate of two or three balusters per tread. <br> Subtract one baluster from the total number of balusters required (the starting newel replaces one baluster). <br> Trim from the bottom to achieve the desired length. |

## Ordering post to post



## Oreative

| 14. | Level Run Balusters Wood | pg. 36-53 | Three Length: <br> 36" level run/balcony: Use 38" balusters. <br> 42" level run/balcony: Use 42" balusters. <br> Five Length: <br> 36 " level run/balcony: Use 36 " balusters from our five length system. <br> Placed on $4^{\prime \prime}$ to $6^{\prime \prime}$ centers, subtract one baluster from the calculated total to account for the end of the run. Subtract one baluster for each newel post on the run. Do not subtract any balusters for the newel under the gooseneck. |
| :---: | :---: | :---: | :---: |
|  | Level Run Balusters Iron | pg. 8-27 | Select the $44^{\prime \prime}$ baluster and trim from the bottom to desired length. <br> Placed on $4^{4 \prime}$ to 6 " centers, subtract one baluster from the calculated total to account for the end of the run. Subtract one baluster for each newel post on the run. Do not subtract any balusters for the newel under the gooseneck. |
| 15. | Hand Rail | pg. 55 | Calculate total lineal footage of hand rail required at a rate of $13^{\prime \prime}$ per tread, plus any additional rail needed for level runs. |
| 16. | Wall Rail | pg. 55 | If local building codes require, select wall rail at a rate of $13^{\prime \prime}$ per tread that is closed by a wall. Additionally, select one wall rail bracket for each end of the rail and at $2^{\prime}$ to $3^{\prime}$ intervals. <br> Note: Non-plowed hand rail profiles may be used as wall rail. Make sure to check local building codes for space requirements between rail and wall. |
| 17. | Goosenecks | pg. 57 | If using a gooseneck fitting with an intermediate and/or landing newel, select a newel that has a 5 " top face. Select a gooseneck that fits your stair type as illustrated in the fitting section. |
| 18. | Miscellaneous Fittings | pg. 56-57 | To create a continuous hand rail from the rake baluster, around a wall, and up the stair as wall rail, select "S" fittings or two level quarter turns. |
| 19. | Shoe Rail for Kneewall Stair | pg. 55 | Select shoe rail, calculating the required lineal footage at a rate of 13" per tread. |
| 20. | Shoe Rail for Level Run | pg. 55 | Select shoe rail, calculating the required lineal footage to cover the entire level run. |
| 21. | Fillet | pg. 55 | Select enough fillet to fill the space between balusters on all plowed hand rail and shoe rail. |
| 22. | Baluster Screws (optional, but recommended) | pg. 64 | Use one baluster screw for each baluster installed without shoe rail (open treads and level landings without shoe rail). |
| 23. | Tread Brackets | pg. 65 | If desired, select one stair bracket for each tread. If your stairway is open two sides, two brackets per tread will be required. Brackets can only be used on an open stairway. |
| 24. | Rake Shoe Iron ONLY | pg. 31 | Select one rake shoe for each iron baluster (optional). A flat collar should be used on all level runs. |
| 25. | Flat Shoe Iron ONLY | pg. 30 | Select one flat shoe for the bottom of each baluster. <br> Open Stairway or Level Run: Select a flat shoe. Kneewall Stairway: Select a rake shoe. |
| 26. | Hardware and Accessories |  | Select any additional hardware or accessories such as wood plugs (pg. 64), wall rail brackets (pg. 64), or epoxy (pg. 31) for iron installations. |

## Newel Length Applications for a Post to Post Stairway

| Starting Newel <br> $\left(48^{\prime \prime}-5^{\prime \prime}\right.$ top face $)$ | Use for a $30^{\prime \prime}$ to $34^{\prime \prime}$ rake rail height. If surface mounted, can be used as a balcony newel. |
| :--- | :--- |
| Starting Newel <br> $\left(58^{\prime \prime}-5^{\prime \prime}\right.$ top face) | Use for a $34^{\prime \prime}$ to $38^{\prime \prime}$ rake rail height. Can also be used as a balcony newel that extends below <br> the floor surface. |
| Landing Newel <br> $\left(111^{\prime \prime}\right.$ top face $)$ | For use when not using a gooseneck. This newel will achieve a 36 " balcony rail height. |
| Intermediate Newel <br> $\left(73^{\prime \prime}\right.$ overall $-14-1 / 2^{\prime \prime}$ top face $)$ | For use when not using a gooseneck. |
| Intermediate Newel <br> $\left(62^{\prime \prime}\right.$ overall $-5 "$ top face) | This newel may be used with a gooseneck. |
| Intermediate Newel <br> $\left(72^{\prime \prime}\right.$ overall $-5 "$ top face) | For use on intermediate landings that have two winder treads and a gooseneck. |



## Coreative $\Theta$ tair $\mathscr{G}$ Rrts

| 1. | Skirtboard |  | Select skirtboard at 13" per tread plus any additional length beyond the first and last risers. |
| :---: | :---: | :---: | :---: |
| 2. | Starting Step | pg. 58-59 | For use with standard volutes or turnouts. <br> Select a single or double bullnose starting step to match floor plan. To determine the appropriate step length, measure finished skirtboard from outside to outside. <br> Note: If utilizing an iron starting newel, a starting step is required. <br> If carpet will be utilized, see false starting steps on page 67. |
| 3. | Treads | pg. 62 | Select one tread for each step, except starting step. <br> Open single stair: Select reversible mitered-return tread, adding 1-1/4" to the skirtboard to skirtboard measurement, then refer to the next longest length. Open both sides: Select double mitered-return treads (measure from finished outside to outside of the skirtboard). <br> If carpet will be utilized, see false treads on page 67. |
| 4. | Risers | pg. 62 | Select one riser per step, excluding the starting step, then add one more riser than tread to accommodate the landing tread. If carpet will be utilized, see false risers on page 67. |
| 5. | Landing Tread | pg. 63 | For the width of stairs at each landing and the entire balcony, select sufficient lineal footage of landing tread. 8091 is suitable for all newels up to 4 " <br> Note: The use of box newels may require an additional wood strip. |
| 6. | Cove Mould | pg. 63 | Under all landing treads and treads (including mitered-returns), select sufficient lineal footage of cove moulding. |
| 7. | Starting Fitting | pg. 56 | Select the preferred style of starting fitting: volute, turnout, or starting easing with cap. |
| 8. | Starting Newel (43") Wood | pg. 36-53 | A 43" starting newel may be used anywhere, except the corner of a landing on an L-shaped stairway. |
|  | Starting Newel (50") Wood |  | Use a 50 " starting newel on a balcony where the newel will extend below the floor surface. This newel may also be used under the starting easing with cap when a starting step is not used and the hand rail is $34^{\prime \prime}$ or higher. |
|  | Starting Newel Iron | pg. 28-29 | Iron newels can only be used as starting newels at the bottom of the stair as they require a starting step for installation. If a stairway is open on both sides, two newels are required. |
| 9. | Landing Newel Wood | pg. 36-53 | 58 " landing newels may be used at the corner of an L-shaped stairway. Use a 72 " landing newel in a two winder landing stairway. |
| 10. | Level Run Newel Wood |  | If a level run is 10 ' or longer, use the $43^{\prime \prime}$ newel, every 5 to 6 feet under a tandem cap. Place a newel at every corner under a quarter turn with cap fitting. <br> Use a 50 " newel to extend the newel below the floor surface. |
| 11. | Rosettes | pg. 65 | Use a round rosette where the rail meets the wall on a level run. Use an oval or rectangular rosette for all angled rail to wall connections. |
| 12. | Newel Mounting Hardware | pg. 64 | Select a newel mounting kit for each newel post. |
| 13. | Balusters <br> Volutes and Turnouts Wood | pg. 36-53 | 30" - 34" Rake Rail Height: <br> Volutes: Use four or six 1-1/4" -OR- four 1-3/4" 38" balusters. <br> Turnouts: Use two 1-1/4" -OR- one 1-3/4" 42" balusters. <br> 34" - 38" Rake Rail Height: <br> Volutes: Use four or six 1-1/4" -OR- four 1-3/4" 42" balusters. <br> Turnouts: Use two 1-1/4" -OR- one 1-3/4" 42" balusters. |
|  | Balusters <br> Volutes and Turnouts Iron | pg. 8-27 | Volutes: Use six 44" iron balusters, trimming to length from the bottom. <br> Turnouts: Use two 44 " iron balusters, trimming to length from the bottom. <br> Note: Wide baluster styles, such as the 451, cannot be used under a volute or turnout. |
|  | Balusters <br> Starting Easing with Cap Wood | pg. 36-53 | 30" - 34" Rake Rail Height: One 38" baluster 34" - 38" Rake Rail Height: One 42" baluster |
|  | Balusters <br> Starting Easing with Cap Iron | pg. 8-27 | Use one 44 " iron baluster beneath the starting easing, trimming to length from the bottom. |
|  | Rake Balusters (three length system) <br> Open Stairway Wood | pg. 36-53 | 30" - 34" Rake Height: <br> On each tread, use a 34 " baluster for the first baluster and $38^{\prime \prime}$ balusters for the second and third. If using three balusters and a fitting, substitute a 42 " baluster for the third baluster under each gooseneck. <br> 34" - 38" Rake Height: <br> On each tread, use a 38 " baluster for the first baluster and a 42" baluster for the second. If using three balusters, use a 38 " for the first and second balusters, and a $42^{\prime \prime}$ for the third. <br> Note: When using three balusters per tread for $34^{\prime \prime}-38^{\prime \prime}$ rail height, the 42" baluster may not be long enough for use under a gooseneck. |

## Ordering over the post <br> 

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[^1]Note: When using three balusters per tread for $34^{\prime \prime}-38^{\prime \prime}$ rail height, the $42^{\prime \prime}$ baluster may not be long enough for use under a gooseneck.

|  | Rake Balusters 34" Rake Heights Open Stairway Iron | pg. 8-27 |
| :---: | :---: | :---: |
|  | Rake Balusters Kneewall Stairways Wood | pg. 36-53 |
|  | Rake Balusters Kneewall Stairways Iron | pg. 8-27 |
| 14. | Level Run Balusters Wood | pg. 36-53 |
|  | Level Run Balusters Iron | pg. 8-27 |
| 15. | Hand Rail | pg. 55 |
| 16. | Wall Rail | pg. 55 |
| 17. | Goosenecks | pg. 57 |
| 18. | Miscellaneous Fittings | pg. 56-57 |
| 19. | Shoe Rail for Kneewall Stair | pg. 55 |
| 20. | Shoe Rail for Level Run | pg. 55 |
| 21. | Fillet | pg. 55 |
| 22. | Baluster Screws (optional, but recommended) | pg. 64 |
| 23. | Tread Brackets | pg. 65 |
| 24. | Rake Shoe Iron ONLY | pg. 31 |
| 25. | Flat Shoe Iron ONLY | pg. 30 |
| 26. | Hardware and Accessories |  |

30" - 34" and 34" - 38" Rake Heights:
Use two or three 44" iron balusters per tread, trimming from the bottom to length. If an alternating pattern is desired, remember to keep that pattern in mind as calculating the number of balusters needed per stair.
Note: Depending selected style, three balusters may not fit on a single tread. Check building codes for spacing compliance.
Placed on $4^{\prime \prime}$ to $6^{\prime \prime}$ centers, select the shortest available baluster at a rate of two or three balusters per tread
Subtract one baluster from the total number of balusters required (the starting newel replaces one baluster).

Placed on 4 " to 6 " centers, select the desired balusters at a rate of two or three balusters per tread.
Subtract one baluster from the total number of balusters required (the starting newel replaces one baluster). Trim from the bottom to achieve the desired length.

## Three Length:

36" level run/balcony: Use 38" balusters
42" level run/balcony: Use 42" balusters
Five Length:
36" level run/balcony: Use 36" balusters from our five length system.
Placed on $4^{\prime \prime}$ to $6^{\prime \prime}$ centers, subtract one baluster from the calculated total to account for the end of the run. Subtract one baluster for each newel post on the run. Do not subtract any balusters for the newel under the gooseneck.
Select the $44^{\prime \prime}$ baluster and trim from the bottom to desired length.
Placed on $4^{\prime \prime}$ to $6^{\prime \prime}$ centers, subtract one baluster from the calculated total to account for the end of the run. Subtract one baluster for each newel post on the run. Do not subtract any balusters for the newel under the gooseneck.

Calculate total lineal footage of hand rail required at a rate of 13" per tread, plus any additional rail needed for level runs.
If local building codes require, select wall rail at a rate of $13^{\prime \prime}$ per tread that is closed by a wall. Additionally, select one wall rail bracket for each end of the rail and at $2^{\prime}$ to $3^{\prime}$ intervals.
Note: Non-plowed hand rail profiles may be used as wall rail. Make sure to check local building codes for space requirements between rail and wall.

Match each corner of floor plan to a corresponding gooseneck. Select a gooseneck that fits your stair type as illustrated in the fitting section.

To create a continuous hand rail from the rake baluster, around a wall, and up the stair as wall rail, select "S" fittings or two level quarter turns.
Select shoe rail, calculating the required lineal footage at a rate of $13^{\prime \prime}$ per tread.
Select shoe rail, calculating the required lineal footage to cover the entire level run.

Select enough fillet to fill the space between balusters on all plowed hand rail and shoe rail.
Use one baluster screw for each baluster installed without shoe rail (open treads and level landings without shoe rail).

If desired, select one stair bracket for each tread. If your stairway is open two sides, two brackets per tread will be required. Brackets can only be used on an open stairway.
Select one rake shoe for each iron baluster (optional). A flat collar should be used on all level runs.

## Select one flat shoe for the bottom of each baluster

Open Stairway or Level Run: Select a flat shoe.
Kneewall Stairway: Select a rake shoe.
Select any additional hardware or accessories such as wood plugs (pg. 64), wall rail brackets (pg. 64), or epoxy (pg. 31) for iron installations.

## Newel Length Applications for an Over the Post Stairway

Starting Newel (43")
Use under starting fittings or as a surface mounted balcony newel.
Starting Newel (50")
Use under starting easings with cap when a starting step is not used. Also may be used to achieve a rake height of $34^{\prime \prime}$ or higher. This newel may be used on a balcony when the newel is to extend below the floor surface.
Landing Newel (58") Used on intermediate landings.
Landing Newel (72")
For use on intermediate landings that have two winder treads.

## Stairway Anatomy

## Granic:

## Post to Post Stairway



## Over the Post Stairway



# Definitions 

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90 Degree Upeasing Upeasing that quickly transitions hand rail from level to vertical.

Baluster Decorative vertical member of a balustrade system. Balusters are usually $1-1 / 4^{\prime \prime}, 1-5 / 8^{\prime \prime}$ or $1-3 / 4^{\prime \prime}$ square.

Balustrade Hand rail system located on the open side of a stairway that consists of newel post, balusters, and rail components.

Box Newel Type of newel that is usually constructed like a box, often having a hollow center. Box newels are usually square rather than turned on a lathe.

Carriage A supporting member running the length of the stairway on which treads, risers, and balustrade are mounted (also referred to as rough stringers or rough horses).

Coped End Fitting Hand rail fitting with one end coped to match the profile of a fitting cap. When attached to the hand rail on one end and a cap on the other, the installer can build special angle fittings.

Cove Mould Decorative trim which is used to cover the joint between the tread/riser and the landing tread/landing face.

False Riser Economical alternative to a full riser. Riser cap is installed over a portion of the rough framed riser to simulate the look of a solid riser. Ideal for center carpeted stairways.

False Tread Economical alterative to a full tread. Tread cap is installed over a portion of the rough framed tread on the open side of a stairway to simulate the look of a solid tread. Ideal for center carpeted stairways.

Fillet Decorative wood strips used to fill the plow between balusters on plowed hand rail and plowed shoe rail.

Gooseneck Fitting consisting of one or two upeasings, one rail drop, and one or two level fitting components. Used to make transitions at landings.

Hand Rail Portion of the balustrade system which sits on top of the balusters and is supported by the newel posts.

Hand Rail Fittings Components that make transitions in hand rail height or pitch. Also allows the hand rail to run over the newel post. Components attach to the hand rail and are profiled to match the hand rail pattern.

Intermediate Landing Platform separating flights of stairs.
Intermediate Newel Post Newel post at the corner of an intermediate landing where two rake rails meet.

Kneewall Wall on the balustrade system side of the stair that extends just a few inches above the nose of the treads. The balustrade system attaches to the kneewall and adjacent framing members.

Landing Newel Newel post at the top of a flight of steps, located at the point where a rake hand rail and a level hand rail intersect.

Landing Tread Moulding used to give the appearance of a tread with nosing at the top riser of a flight of stairs and along the open edge of second floor balconies and intermediate landings.

Newel Post Major support post in balustrade system. Newel posts are located at the bottom and top of flights of stairs, as support posts in long balustrade lengths on second floor landings, and at direction changes.

Pin Top Balusters Balusters with a turned area that extend to the top of the baluster. They are connected to the hand rail by inserting the round top of the baluster into a hole drilled in the bottom of the hand rail.

Riser Vertical component of a step which your toe might hit when walking on a stairway.

Rosette Decorative piece used where the hand rail meets a wall.
Second Floor Landing Floor area at the top of a stairway. The second floor landing is commonly referred to as the balcony.

Shoe Mould Decorative moulding used to cover the joint between the bottom riser and the floor.

Shoe Rail Plowed bottom rail of a balustrade system, which houses the bottom block of a baluster.

Skirtboard Decorative trim board used in carriage built stairways to trim the area of the carriage on the open side of the stairway and as a moulding on the closed side of the stairway.

Square Top Balusters Balusters that are square on the top and bottom. Fits securely in a plowed hand rail.

Starting Easing Fitting used as a decorative beginning at the bottom of a wall rail.

Starting Fitting Decorative beginning to an over the post hand rail system.

Starting Newel Newel used at the bottom of a stairway.
Starting Step Bottom tread and riser of a stair. Starting steps often have rounded ends, called bullnoses, that extend beyond the carriage of the stairway. Bullnosed starting steps are necessary for over the post balustrades beginning with volutes or turnouts.

Tread The part of a step that is walked on.
Tread Bracket Decorative piece mitered to the riser and fastened on the side of an open skirtboard.

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[^0]:    1139
    Pg. 29

[^1]:    30" - 34" Rake Height:
    Use a 34" baluster as the first baluster on the tread, a $36^{\prime \prime}$ baluster as the second, and a 39 " baluster as the third.
    34" - 38" Rake Height:
    When installing two balusters per tread, use a 36 " baluster as the first baluster on each tread, and a 42 " baluster as the second. When installing three balusters per tread, use a 36" baluster as the first baluster on each tread, a 39 " baluster as the second, and a 42" baluster as the third.

