



LIMITED  
LIFETIME  
WARRANTY

ALUMINUM  
*Solutions*  
BY FAIRWAY®  
BALUSTERS  
WWW.SOLUTIONSALUMINUM.COM

ALUMINUM BALUSTER LIST PRICE CATALOG

Each SOLUTIONS® Baluster has a beautiful low gloss satin AAMA-2603 powder coated finish and is covered by a *Limited Lifetime Warranty*.

Offered in multiple colors to complement any rail project

For use with wood, composite or vinyl railing

Eliminates the twisting and cracking concerns of traditional wood balusters

Numerous accessories to customize the look of your baluster selection

The average railing section has 3 times more baluster footage than railing – selecting SOLUTIONS® Balusters can reduce your railing maintenance investment by nearly 75%

SOLUTIONS® Balusters accent your project while maintaining the traditional warm look of your wood railing choice

Typical aluminum baluster count is 3 per linear foot

Installation is easily accomplished with standard household tools

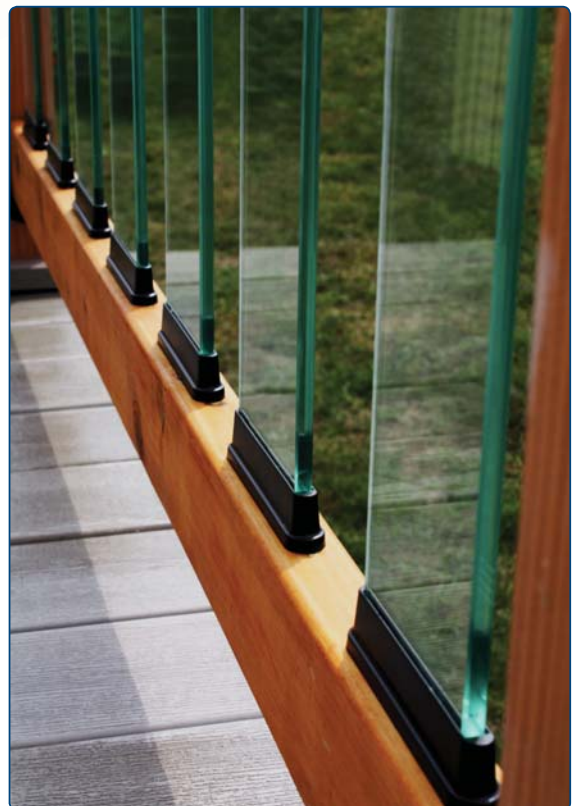
SOLUTIONS® Balusters and accessories are offered in retail and contractor friendly packaging in convenient job quantities

Required screws and hardware included

Additional installation hardware available




Powder Coated baluster ends for added protection and elimination of exposed aluminum  
No need for a washed baluster connection





## HIGH STYLE, MODESTLY PRICED ALUMINUM BALUSTERS

SOLUTIONS® Aluminum Balusters are manufactured from quality aluminum with a high performance powder coated finish. Keep the traditional look of wood but save time with these stylish balusters that define the beauty and look of your project and rail choice with the **lasting durability of aluminum.**

A collection of various aluminum balusters and accessories is shown on the left side of the page. The items include round balusters, square balusters, basket balusters, glass balusters, face mount balusters, baluster connectors, and baluster accessories. They are arranged in a fan-like pattern, showing different finishes and designs.

ROUND BALUSTERS .....	4
SQUARE BALUSTERS .....	5
BASKET BALUSTERS .....	6
GLASS BALUSTERS .....	7
FACE MOUNT BALUSTERS .....	8
BALUSTER CONNECTORS.....	9-10
BALUSTER ACCESSORIES.....	11-12
INSTALLATION GUIDES.....	13-15

Check your local building codes for proper installation • Always wear proper safety equipment during installation

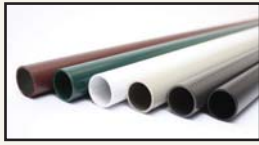
Visual Representations May Vary From Actual Colors • Reorder: SML003-02 • Printed: March 2014








# ROUND BALUSTERS

Use 2.67 balusters per lineal foot for estimating purposes



## RETAIL PACKS

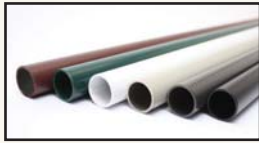


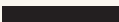






- Available in:
-  black
  -  bronze
  -  ham. bronze
  -  clay
  -  rust
  -  green
  -  white

### 26" Round 10 Pack Aluminum Balusters

26" x 3/4" Round Baluster designed for 36" rail height\*\*, each baluster is individually poly bagged for added protection

- Item # 301200 - black\* \* BLACK - LIST PRICE:
- Item # 301202 - bronze **\$29.00 /10 pk.**
- Item # 301207 - hammered bronze
- Item # 301204 - clay LIST PRICE:
- Item # 301208 - rust **\$30.00 /10 pk.**
- Item # 301206 - green
- Item # 301210 - white

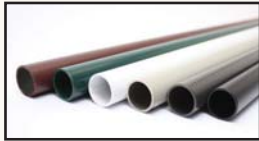









- Available in:
-  black
  -  bronze
  -  ham. bronze
  -  clay
  -  rust
  -  green
  -  white

### 32" Round 10 Pack Aluminum Balusters

32" x 3/4" Round Baluster designed for 42" rail height\*\*, each baluster is individually poly bagged for added protection

- Item # 301248 - black\* \* BLACK - LIST PRICE:
- Item # 301250 - bronze **\$34.60 /10 pk.**
- Item # 301255 - hammered bronze
- Item # 301252 - clay LIST PRICE:
- Item # 301256 - rust **\$35.80 /10 pk.**
- Item # 301254 - green
- Item # 301258 - white



- Available in:
-  black
  -  bronze
  -  ham. bronze
  -  clay
  -  rust
  -  green
  -  white








### 36" Round 10 Pack Aluminum Balusters

36" x 3/4" Round Baluster designed for 46" rail height\*\*, each baluster is individually poly bagged for added protection

- Item # 301296 - black\* \* BLACK - LIST PRICE:
- Item # 301298 - bronze **\$39.00 /10 pk.**
- Item # 301299 - hammered bronze
- Item # 301300 - clay LIST PRICE:
- Item # 301304 - rust **\$40.40 /10 pk.**
- Item # 301302 - green
- Item # 301306 - white

## CONTRACTOR PACKS










- Available in:
-  black
  -  bronze
  -  ham. bronze
  -  clay
  -  rust
  -  green
  -  white

### 26" Round 100 Pack Aluminum Balusters

26" x 3/4" Round Baluster designed for 36" rail height\*\*, each baluster is individually poly bagged for added protection

- Item # 301390 - black\* \* BLACK - LIST PRICE:
- Item # 301392 - bronze **\$254.00 /100 pk.**
- Item # 301393 - hammered bronze
- Item # 301400 - white LIST PRICE:
- \$263.00 /100 pk.**

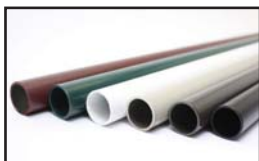






- Available in:
-  black
  -  bronze
  -  ham. bronze
  -  clay
  -  rust
  -  green
  -  white

### 32" Round 100 Pack Aluminum Balusters

32" x 3/4" Round Baluster designed for 42" rail height\*\*, each baluster is individually poly bagged for added protection

- Item # 301416 - black\* \* BLACK - LIST PRICE:
- Item # 301418 - bronze **\$304.00 /100 pk.**
- Item # 301427 - hammered bronze
- Item # 301420 - clay LIST PRICE:
- Item # 301424 - rust **\$315.00 /100 pk.**
- Item # 301422 - green
- Item # 301426 - white



- Available in:
-  black
  -  bronze
  -  ham. bronze
  -  white

### 36" Round 100 Pack Aluminum Balusters

36" x 3/4" Round Baluster designed for 46" rail height\*\*, each baluster is individually poly bagged for added protection

- Item # 301440 - black\* \* BLACK - LIST PRICE:
- Item # 301442 - bronze **\$346.00 /100 pk.**
- Item # 301443 - hammered bronze
- Item # 301450 - white LIST PRICE:
- \$358.00 /100 pk.**

\*\* Wood Railing Installation

# SQUARE BALUSTERS

Use 2.67 balusters per lineal foot for estimating purposes

## RETAIL PACKS



Available in:

- black
- bronze
- ham. bronze
- clay
- rust
- green
- white

### 26" Square 10 Pack Aluminum Balusters

26" x 3/4" Square Baluster designed for 36" rail height\*\*, each baluster is individually poly bagged for added protection

Item # 301212 - black\*

Item # 301214 - bronze

Item # 301219 - hammered bronze

Item # 301216 - clay

Item # 301220 - rust

Item # 301218 - green

Item # 301222 - white

\* BLACK - LIST PRICE:  
**\$34.40 /10 pk.**

LIST PRICE:  
**\$35.60 /10 pk.**



Available in:

- black
- bronze
- ham. bronze

### 32" Square 10 Pack Aluminum Balusters

32" x 3/4" Square Baluster designed for 42" rail height\*\*, each baluster is individually poly bagged for added protection

Item # 301260 - black\*

Item # 301262 - bronze

Item # 301267 - hammered bronze

\* BLACK - LIST PRICE:  
**\$42.00 /10 pk.**

LIST PRICE:  
**\$43.50 /10 pk.**



Available in:

- black
- bronze

### 36" Square 10 Pack Aluminum Balusters

36" x 3/4" Square Baluster designed for 46" rail height\*\*, each baluster is individually poly bagged for added protection

Item # 301308 - black\*

Item # 301310 - bronze

\* BLACK - LIST PRICE:  
**\$47.00 /10 pk.**

LIST PRICE:  
**\$48.60 /10 pk.**

## CONTRACTOR PACKS



Available in:

- black
- bronze
- ham. bronze
- white

### 26" Square 100 Pack Aluminum Balusters

26" x 3/4" Square Baluster designed for 36" rail height\*\*, each baluster is individually poly bagged for added protection

Item # 301402 - black\*

Item # 301404 - bronze

Item # 301403 - hammered bronze

Item # 301412 - white

\* BLACK - LIST PRICE:  
**\$310.00 /100 pk.**

LIST PRICE:  
**\$321.00 /100 pk.**



Available in:

- black
- bronze
- ham. bronze

### 32" Square 100 Pack Aluminum Balusters

32" x 3/4" Square Baluster designed for 42" rail height\*\*, each baluster is individually poly bagged for added protection

Item # 301428 - black\*

Item # 301430 - bronze

Item # 301432 - hammered bronze

\* BLACK - LIST PRICE:  
**\$380.00 /100 pk.**

LIST PRICE:  
**\$393.00 /100 pk.**

\*\* Wood Railing Installation

# BASKET BALUSTERS

Use 2.67 balusters per lineal foot for estimating purposes

• Fully Integrated & Welded Baskets



Available in:

black

bronze

## 26" Round Aluminum Basket Balusters

26" x 3/4" Round Baluster designed for 36" rail height\*\*, each baluster is individually poly bagged for added protection

Sold in multiples of 6.

Item # 301224 - black  
Item # 301226 - bronze

LIST PRICE:

**\$82.44 /6 pk.**



Available in:

black

bronze

## 26" Round Aluminum Double Basket Balusters

26" x 3/4" Round Baluster designed for 36" rail height\*\*, each baluster is individually poly bagged for added protection

Sold in multiples of 6.

Item # 301236 - black  
Item # 301238 - bronze

LIST PRICE:

**\$133.56 /6 pk.**



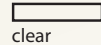
# GLASS BALUSTERS

Use 1.5 balusters per lineal foot for estimating purposes

- Tempered Glass Meets ICC Glazing Requirements
- 30° - 37° Angle Adjustability
- No Angle Cutting Required



Available in:



clear



## 26", 32" & 38" Glass Balusters - Level

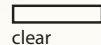
Tempered glass measures 5/16" thick x 4" X 26", 32" or 38" long will work for many different rail heights. Sold in multiples of 5.

Must use glass straight rail baluster shoe connector shown below.

Item # 301370 - 26" length	<b>\$63.00 /5 pk.</b>
Item # 301372 - 32" length	<b>\$75.50 /5 pk.</b>
Item # 301373 - 38" length	<b>\$88.50 /5 pk.</b>



Available in:



clear



## 26", 32" & 38" Glass Balusters - Stair

Tempered glass measures 5/16" thick x 4" wide x 25-1/2", 32-1/4" and 40" long.

Must use glass stair rail baluster shoe connector shown below.

Sold in multiples of 5.

Item # 301382 - 25-1/2" length	<b>\$70.00 /5 pk.</b>
Item # 301384 - 32-1/4" length	<b>\$82.00 /5 pk.</b>
Item # 301386 - 40" length	<b>\$94.00 /5 pk.</b>



Available in:



black



bronze



white

## Glass Baluster Shoe - Level

**Glass Baluster Shoe** featuring hidden internal fasteners.

Connectors increase overall baluster height by 3/4".

Includes 1-1/2" stainless steel screws.

Sold in multiples of 2.

Item # 301381 - black	LIST PRICE: <b>\$12.40 /2 pk.</b>
Item # 301381BZ - bronze	
Item # 301381W - white	



Available in:



black



bronze



white

## Glass Baluster Shoe - Stair

**Glass Baluster Shoe** featuring hidden internal fasteners.

Connectors increase overall baluster height by 3/4" and can be used

with all glass stair baluster installations. Includes 1-1/2" stainless steel screws.

Will work with common stair angles from 32 - 36 degrees.

Sold in multiples of 2.

Item # 301387 - black	LIST PRICE: <b>\$13.65 /2 pk.</b>
Item # 301387BZ - bronze	
Item # 301387W - white	

# FACE MOUNT BALUSTERS

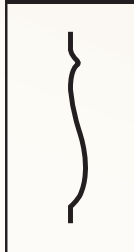
Use 2.5 balusters per lineal foot for estimating purposes



Available in:

- black
- bronze
- ham. bronze

Detail



## 32" Belly Style Baluster - 5 Pack

Belly style baluster measures 1/4" x 1" x 32-1/4".

Each package contains color matched stainless steel screws.

Sold in multiples of 5.

- Item # 301346 - black\*
- Item # 301348 - bronze
- Item # 301350 - hammered bronze

\* BLACK - LIST PRICE:  
**\$45.70 /5 pk.**

LIST PRICE:  
**\$47.30 /5 pk.**



Available in:

- black
- bronze
- ham. bronze

Detail



## 32" Bow Style Baluster - 5 Pack

Bow style baluster measures 3/16" x 1" x 32-1/4".

Each package contains color matched stainless steel screws.

Sold in multiples of 5.

- Item # 301358 - black\*
- Item # 301360 - bronze
- Item # 301362 - hammered bronze

\* BLACK - LIST PRICE:  
**\$42.60 /5 pk.**

LIST PRICE:  
**\$44.10 /5 pk.**



Available in:

- black
- bronze
- ham. bronze

Detail



## Face Mount Baluster - 10 Pack

Face Mount Style rectangular baluster measures 1/2" x 1" x 32-1/4" and 38".

Each package contains color matched stainless steel screws and plastic end caps.

Sold in multiples of 10.

32" Face Mount for 36" rail height

- Item # 301464 - black\*
- Item # 301466 - bronze
- Item # 301468 - hammered bronze

\* BLACK - LIST PRICE:  
**\$76.50 /10 pk.**

LIST PRICE:  
**\$79.20 /10 pk.**

38" Face Mount for 42" rail height

- Item # 301332 - black\*
- Item # 301334 - bronze
- Item # 301336 - hammered bronze

\* BLACK - LIST PRICE:  
**\$82.00 /10 pk.**

LIST PRICE:  
**\$84.90 /10 pk.**



# BALUSTERCONNECTORS



## Round Baluster Connector

For use with 3/4" round balusters. Features a taller connector that assures more engagement for a hidden secure connection. Includes stainless steel screws.

**Sold in multiples of 20.**

**Item # 301374**

LIST PRICE:

**\$8.40 /20 pk.**



Available in:

black

bronze

white

## Round Baluster 5° Connector

For use with 3/4" round balusters. Features a taller connector that assures more engagement for a hidden secure connection. Includes stainless steel screws.

**Sold in multiples of 20.**

**Item # 300770 - black**

**Item # 300772 - bronze**

**Item # 300771 - white**

LIST PRICE:

**\$10.90 /20 pk.**



Available in:

black

bronze

ham. bronze

clay

rust

green

white

## Round Baluster Stair Connector

For use with 3/4" round balusters. Features a taller connector that assures more engagement for a secure connection. Includes stainless steel screws.

**Sold in multiples of 20.**

**Item # 301380 - black**

**Item # 301380BZ - bronze**

**Item # 301380HBZ - hammered bronze**

**Item # 301380C - clay**

**Item # 301380R - rust**

**Item # 301380G - green**

**Item # 301380W - white**

LIST PRICE:

**\$10.90 /20 pk.**



## 3/4" Square Baluster Connector

For use with 3/4" square balusters. Features a taller connector that assures more engagement for a hidden secure connection. Includes stainless steel screws. Also has small anti-rotation spike on bottom of connector.

**Sold in multiples of 20.**

**Item # 301376**

LIST PRICE:

**\$9.80 /20 pk.**



Available in:

black

bronze

white

## 3/4" Square Baluster 5° Connector

For use with 3/4" square balusters. Features a taller connector that assures more engagement for a hidden secure connection. Includes stainless steel screws. Also has small anti-rotation spike on bottom of connector.

**Sold in multiples of 20.**

**Item # 300773 - black**

**Item # 300775 - bronze**

**Item # 300774 - white**

LIST PRICE:

**\$12.30 /20 pk.**



Available in:

black

bronze

ham. bronze

clay

rust

green

white

## 3/4" Square Baluster Stair Connector

For use with 3/4" square balusters. Features a taller connector that assures more engagement for a hidden secure connection. Includes stainless steel screws.

**Sold in multiples of 20.**

**Item # 301377 - black**

**Item # 301377BZ - bronze**

**Item # 301377HBZ - hammered bronze**

**Item # 301377C - clay**

**Item # 301377R - rust**

**Item # 301377G - green**

**Item # 301377W - white**

LIST PRICE:

**\$12.30 /20 pk.**

# ARCHITECTURAL BALUSTER CONNECTORS



## Round Baluster Architectural Connector

Add decorative detail to your 3/4" round balusters. Architectural Connectors feature a taller connector that assures more baluster engagement. Includes stainless steel screws.

Sold in multiples of 20.

Item # 301140 - black  
Item # 301144 - bronze  
Item # 301142 - white

LIST PRICE:  
**\$22.25 /20 pk.**



## Round Baluster Architectural Stair Connector

Add decorative detail to your 3/4" round balusters. Architectural Connectors feature a taller connector that assures more baluster engagement. Includes stainless steel screws.

Sold in multiples of 20.

Item # 301146 - black  
Item # 301150 - bronze  
Item # 301148 - white

LIST PRICE:  
**\$32.25 /20 pk.**



## Square Baluster Architectural Connector

Add decorative detail to your 3/4" square balusters. Architectural Connectors feature a taller connector that assures more baluster engagement. Includes stainless steel screws.

Sold in multiples of 20.

Item # 301152 - black  
Item # 301156 - bronze  
Item # 301154 - white

LIST PRICE:  
**\$22.25 /20 pk.**



## Square Baluster Architectural Stair Connector

Add decorative detail to your 3/4" square balusters. Architectural Connectors feature a taller connector that assures more baluster engagement. Includes stainless steel screws.

Sold in multiples of 20.

Item # 301158 - black  
Item # 301162 - bronze  
Item # 301160 - white

LIST PRICE:  
**\$32.25 /20 pk.**

# BALUSTERACCESSORIES



**Available in:**

- black
- bronze
- cedar
- gray

## 2" x 4"\*\*\* Railing Connector

2" x 4" **Straight Rail** connector for attaching upper or lower rail to post. Deeper saddle provides greater strength and holding power, includes color matched stainless steel screws - **Sold in multiples of 2.**

- Item # 301375 - black
- Item # 301375BZ - bronze
- Item # 301375C - cedar
- Item # 301375G - gray

LIST PRICE:

**\$9.80 /2 pk.**



**Available in:**

- black
- bronze
- cedar
- gray

## 2" x 4"\*\*\* Stair Rail Connector

2" x 4" **Stair Rail** connector for attaching upper or lower rail to post. Deeper saddle provides greater strength and holding power, includes color matched stainless steel screws - **Set Includes Top and Bottom Rail Connector**

- Item # 301388 - black
- Item # 301388BZ - bronze
- Item # 301388C - cedar
- Item # 301388G - gray

LIST PRICE:

**\$13.80 /2 pk.**



**Available in:**

- black
- bronze
- cedar
- gray

## 2" x 4"\*\*\* 45° Angle Rail Connector

2" x 4" **45° Angle Rail** connector for attaching rail to post for angle applications. Deeper saddle provides greater strength and holding power, includes color matched stainless steel screws - **Set Includes Left and Right Angle Rail Connector**

- Item # 301389 - black
- Item # 301389BZ - bronze
- Item # 301389C - cedar
- Item # 301389G - gray

LIST PRICE:

**\$13.80 /2 pk.**



**Available in:**

- black
- bronze
- clay
- rust
- green
- white

## Aluminum Basket

**Baskets** designed simply to slide over round balusters and lock in place with set screws - **Sold in any quantity.**

- Item # 301500 - black\*
- Item # 301502 - bronze
- Item # 301504 - clay
- Item # 301508 - rust
- Item # 301506 - green
- Item # 301510 - white

\* **BLACK** - LIST PRICE:

**\$15.50 ea.**

LIST PRICE:

**\$16.04 ea.**



**Available in:**

- black
- bronze
- clay
- rust
- green
- white

## Solid Aluminum Round Collar

**Collars** designed simply to slide over round balusters and lock in place with set screw - **Sold in any quantity.**

- Item # 301528 - black\*
- Item # 301530 - bronze
- Item # 301532 - clay
- Item # 301536 - rust
- Item # 301534 - green
- Item # 301538 - white

\* **BLACK** - LIST PRICE:

**\$4.80 ea.**

LIST PRICE:

**\$4.97 ea.**

# BALUSTERACCESSORIES



Available in:

black  
bronze  
ham. bronze  
clay  
rust  
green  
white

## Solid Aluminum Round Ring Collar

Collars designed simply to slide over square balusters and lock in place with set screw - **Sold in any quantity.**

Item # 301542 - black\*  
Item # 301544 - bronze  
Item # 301554 - hammered bronze  
Item # 301546 - clay  
Item # 301550 - rust  
Item # 301548 - green  
Item # 301552 - white

\* BLACK - LIST PRICE:

**\$2.60 ea.**

LIST PRICE:

**\$2.69 ea.**



Available in:

black  
bronze  
clay  
rust  
green  
white

## Aluminum Square Basket

Baskets designed simply to slide over square balusters and lock in place with set screws - **Sold in any quantity.**

Item # 301514 - black\*  
Item # 301516 - bronze  
Item # 301518 - clay  
Item # 301522 - rust  
Item # 301520 - green  
Item # 301524 - white

\* BLACK - LIST PRICE:

**\$17.20 ea.**

LIST PRICE:

**\$17.80 ea.**



Available in:

black  
bronze  
ham. bronze  
clay  
rust  
green  
white

## Solid Aluminum Square Collar

Collars designed simply to slide over square balusters and lock in place with set screw - **Sold in any quantity.**

Item # 301556 - black\*  
Item # 301558 - bronze  
Item # 301568 - hammered bronze  
Item # 301560 - clay  
Item # 301564 - rust  
Item # 301562 - green  
Item # 301566 - white

\* BLACK - LIST PRICE:

**\$5.40 ea.**

LIST PRICE:

**\$5.59 ea.**



Available in:

black  
bronze  
ham. bronze  
clay  
rust  
green  
white

## American Heritage Aluminum Centerpiece

American Heritage centerpiece can be installed prior to or after baluster installation with self tapping color matched screws.

Designed to be used with 3/4" round or square balusters.

Required Baluster Spacing - Min. 4" O.C. - **Sold in any quantity.**

Item # 301584 - black\*  
Item # 301586 - bronze  
Item # 301596 - hammered bronze  
Item # 301588 - clay  
Item # 301592 - rust  
Item # 301590 - green  
Item # 301594 - white

\* BLACK - LIST PRICE:

**\$22.20 ea.**

LIST PRICE:

**\$22.98 ea.**



Available in:

black  
bronze  
clay  
rust  
green  
white

## New England Aluminum Centerpiece

New England centerpiece can be installed prior to or after baluster installation with self tapping color matched screws.

Designed to be used with 3/4" round or square balusters.

Required Baluster Spacing - Min. 4-1/4" O.C. - **Sold in any quantity.**

Item # 301570 - black\*  
Item # 301572 - bronze  
Item # 301574 - clay  
Item # 301578 - rust  
Item # 301576 - green  
Item # 301580 - white

\* BLACK - LIST PRICE:

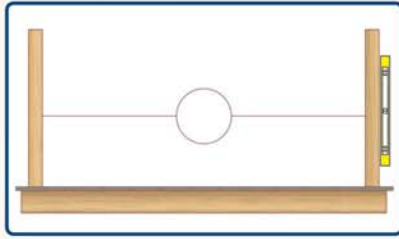
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LIST PRICE:

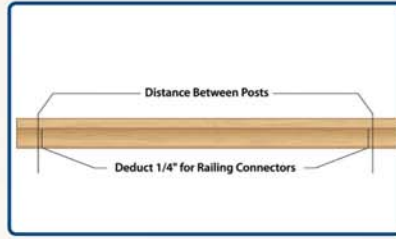
**\$22.98 ea.**

# 3/4" ALUMINUM BALUSTERS - LEVEL AND STAIR INSTALLATION GUIDE

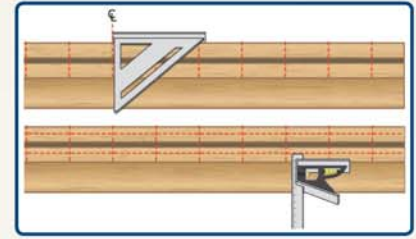
## LEVEL



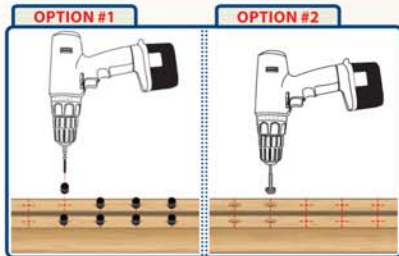
**STEP #1** - Plumb posts/mounting surfaces. Measure inside distance of posts/mounting surfaces.



**STEP #2** - Using step - 1 measurement, deduct 1/2" from total measurement for railing connectors (if not using railing connectors, cut to step - 1 measurement). Cut both top and bottom rails.



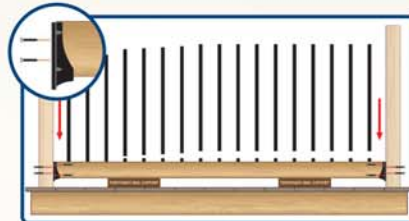
**STEP #3** - Lay top and bottom rails beside each other and flush ends. Find the center of rails and mark **lightly**. Measure out 4-1/2" from both sides of center line and mark **lightly**. End spacing will vary. Set a combination square for center (example: 1-1/2" = 3/4") and mark **lightly**. Where lines intersect will be the center of baluster.



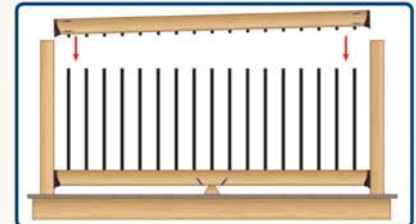
**STEP #4** - There are two options for installing balusters.

**Option #1** - Connector Method: Insert screw through connector and install where lines intersect (you may want to mark the center with a nail before drilling).

**Option #2** - Insert Method: Drill a 3/4" hole, 3/4" deep in top and bottom rails where lines intersect.



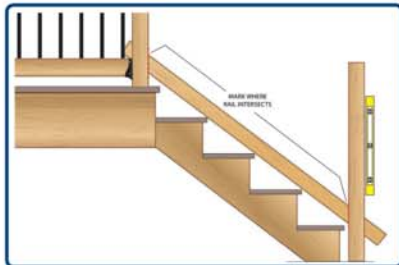
**STEP #5** - Install two (2) #8 x 2" screws (per connector) through railing connector into rail ends. Rest bottom rail on two (2) temporary spacer blocks the required height between deck and bottom of bottom rail. Center railing connectors on post and install four (4) #8 x 2" screws (per connector) through railing connector into posts. Apply a small amount of silicone caulk to diameter of baluster where it meets baluster connector or insertion hole to insure a tight, movement-free installation. Install balusters on bottom rail.



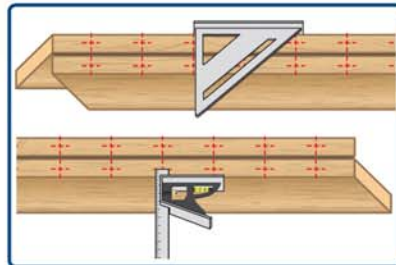
**STEP #6** - Start Top Rail at an angle and insert connectors into balusters or balusters into insertion holes in top rail. Make sure balusters are fully connected. Install four (4) #8 x 2" screws (per connector) through railing connectors into posts.

**NOTE:** With spans greater than 6' (or required), install a foot block (use cut-off from rail).

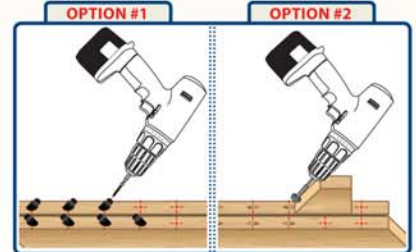
## STAIR



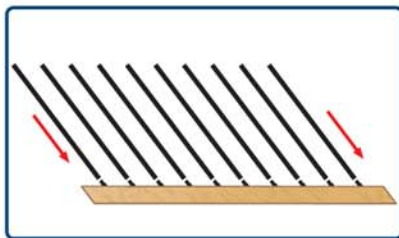
**STEP #1** - Lay bottom rail alongside posts and mark for angle. If posts are plumb top rail should be the same length and angle. Cut top and bottom stair rails at proper angle.



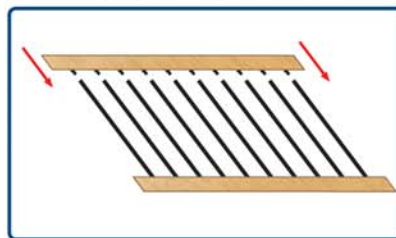
**STEP #2** - Lay top and bottom rails beside each other with the top rail turned upside down. Position rails as shown. Find the center of rails and mark **lightly**. Measure out 5-1/2" from both sides of center line and mark **lightly**. End spacing will vary. Set a combination square for center (example: 1-1/2" = 3/4") and mark **lightly**. Where lines intersect will be center of screw/insertion hole.



**STEP #3** - There are two options for installing balusters. **Option #1** - Connector Method: Insert screw through connector and install where lines intersect (start screw vertically and tilt screw to proper angle). **Top and bottom baluster connectors will be facing opposite directions.** Do not overtighten. **Option #2** - Insert Method: Drill a 3/4" hole, 3/4" deep in top and bottom rails where lines intersect using a rail cut-off as a guide block for stair angle.



**STEP #4** - Make sure connectors are properly lined up. Apply a small amount of silicone caulk to diameter of baluster where it meets baluster connector or insertion hole to insure a tight, movement-free installation. Install balusters on bottom rail.



**STEP #5** - Start Top Rail at an angle and insert connectors into balusters or into insertion holes until all balusters are in place. Make sure balusters are fully connected.

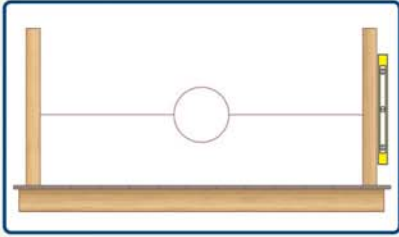


**STEP #6** - Install stair rail assembly.

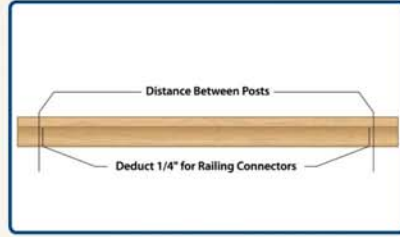
Please Note: Do not exceed a 4" gap between balusters. Gap between deck and bottom rail should not exceed 4". It is the responsibility of the installer to meet or exceed all code and safety requirements, and to obtain all required building permits. These instructions are only a guide and may not address every circumstance. The deck and railing installer should determine and implement appropriate installation techniques for each situation. Solutions® shall not be held liable for improper or unsafe installations.

## FACE MOUNT BALUSTERS

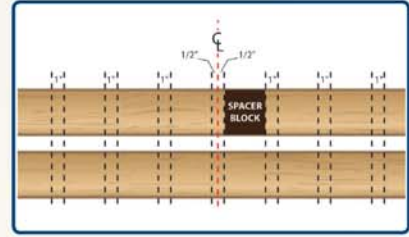
### LEVEL INSTALLATION GUIDE



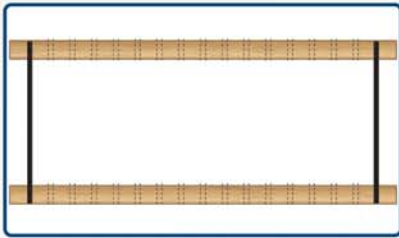
**STEP #1** - Plumb posts/mounting surfaces. Measure inside distance of posts/mounting surfaces.



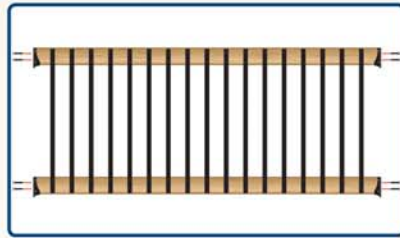
**STEP #2** - Using step - 1 measurement, deduct 1/2" from total measurement for railing connectors (if not using railing connectors, cut to step - 1 measurement). Cut both top and bottom rails.



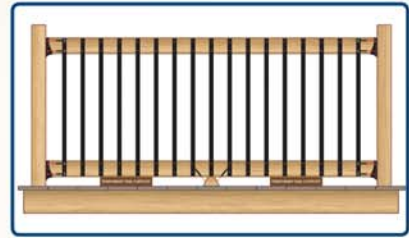
**STEP #3** - Find center of top and bottom rails. From center line, measure and mark 1/2" on both sides of center mark (marking a 1" space). Cut a 3-1/2" spacer block and hold against the outside edge of center 1" space. Repeat process on other side of center and continue across rail. NOTE: 3-1/2" is a "Starting Point" it may be necessary to adjust spacing depending on rail length. Do not exceed 4" gap between balusters.



**STEP #4** - Lay rails on a flat surface & install the two (2) outer balusters (four (4) screws per baluster). This will maintain spacing between rails.



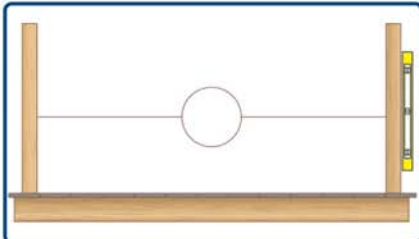
**STEP #5** - Finish installing balusters. Slide railing connectors on rail ends making sure rail is fully seated in connector. Install two (2) #8 x 2" screws (per connector) through railing connectors into rail ends.



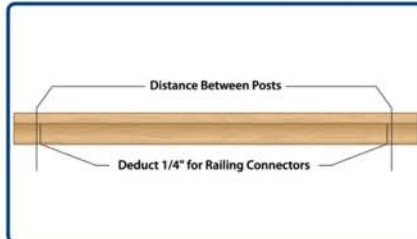
**STEP #6** - Rest rail section on two (2) temporary spacer blocks the required height between deck and bottom of bottom rail. Center railing connectors on post and install four (4) #8 x 2" screws (per connector) through railing connector into posts. NOTE: With spans greater than 6' (or required), install a foot block (use cut-off from rail).

## RAILING CONNECTOR

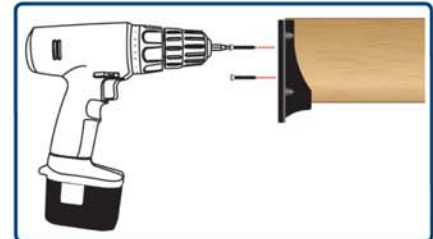
### INSTALLATION GUIDE



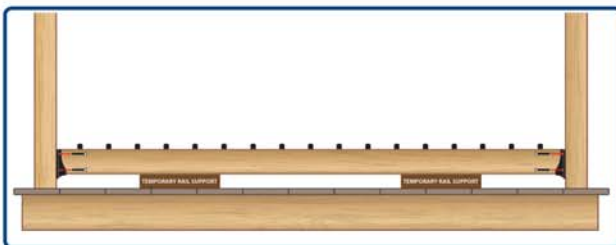
**STEP #1** - Plumb posts/mounting surfaces. Measure inside distance of posts/mounting surfaces.



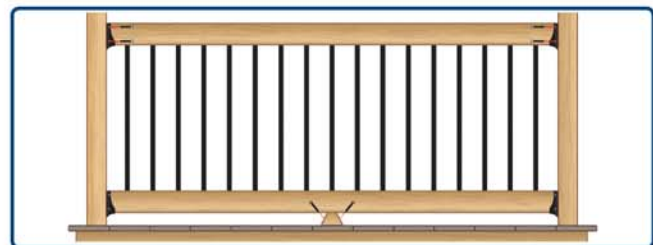
**STEP #2** - Using step - 1 measurement, deduct 1/2" from total measurement for railing connectors. Cut both top and bottom rails.



**STEP #3** - Slide railing connectors on rail ends making sure rail is fully seated in connector. Install two (2) #8 x 2" screws (per connector) through railing connectors into rail ends.



**STEP #4** - Cut two (2) "Spacer Blocks" to be placed between deck & bottom rail. Place bottom rail section between posts. Install four (4) #8 x 2" screws (per connector) through railing connectors into posts



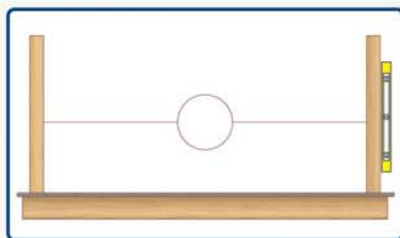
**STEP #5** - Place top rail into position. Install four (4) #8 x 2" screws (per connector) through railing connectors into posts. NOTE: With spans greater than 6' (or required) install a foot block (use cut-off from rail).

Please Note: Do not exceed a 4" gap between balusters. Gap between deck and bottom rail should not exceed 4". It is the responsibility of the installer to meet or exceed all code and safety requirements, and to obtain all required building permits. These instructions are only a guide and may not address every circumstance. The deck and railing installer should determine and implement appropriate installation techniques for each situation.

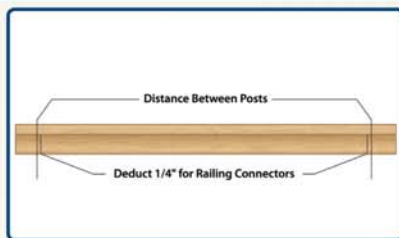
14 Solutions® shall not be held liable for improper or unsafe installations.

# GLASS BALUSTERS - LEVEL AND STAIR INSTALLATION GUIDE

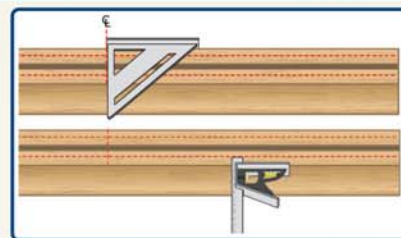
## LEVEL



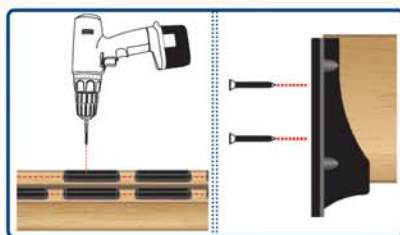
**STEP #1** - Plumb posts/mounting surfaces. Measure inside distance of posts/mounting surfaces.



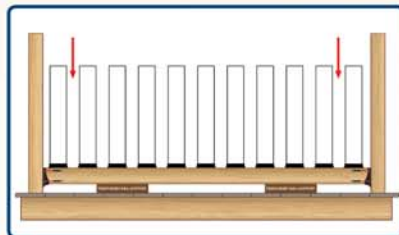
**STEP #2** - Using step - 1 measurement, deduct 1/2" from total measurement for railing connectors (if not using railing connectors, cut to step - 1 measurement). Cut both top and bottom rails.



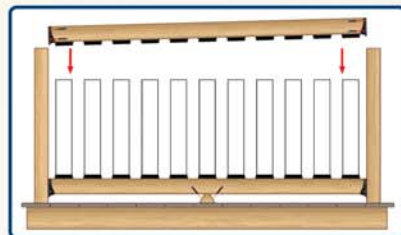
**STEP #3** - Lay top and bottom rails beside each other and flush ends. Find the center of rails and mark **lightly**. From the center mark, measure out 8", from both sides and mark. End spacing will vary. Note: Baluster spacing will vary with rail length.



**STEP #4** - With 8" center marks measure over 2-1/2" (this will be the edge of glass baluster connector shoe). Center baluster shoe on rail and insert screws through connector shoe. Make sure screw head is inserted below Glass Baluster. Install two (2) #8 x 2" screws (per connector) through railing connectors into rail ends.

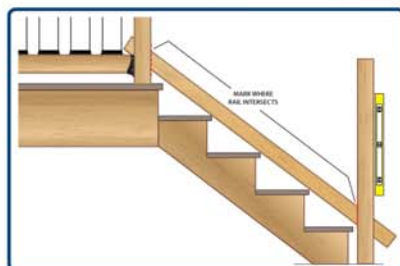


**STEP #5** - Cut two (2) temporary spacer blocks the required distance between deck and bottom of rail. Rest bottom rail on spacer blocks and center on mounting surface. Install four (4) #8 x 2" screws (per connector) through railing connectors into posts. Apply a small amount of silicone caulk to inside of glass baluster connector shoe to insure a tight, movement-free installation. Insert glass balusters into glass baluster connector shoes.

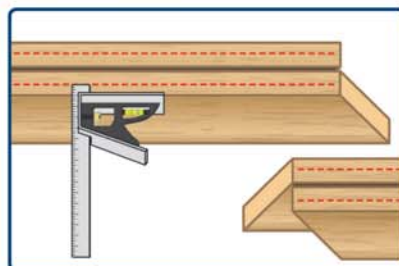


**STEP #6** - Start top rail at an angle and insert balusters into glass baluster connector shoes. Install four (4) #8 x 2" screws (per connector) through railing connectors into posts. NOTE: With spans greater than 6' (or required), install a foot block (use cut-off from rail).

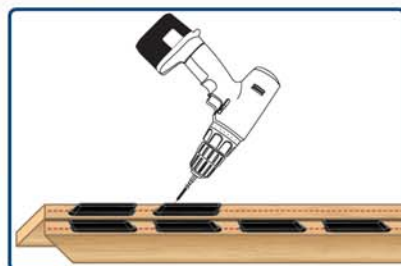
## STAIR



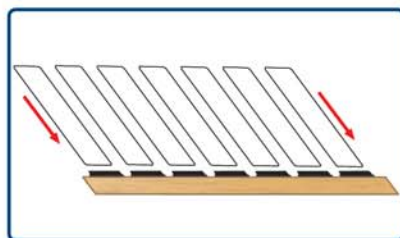
**STEP #1** - Lay bottom rail alongside posts and mark for angle. If posts are plumb top rail should be the same length and angle. Cut top and bottom stair rails at proper angle.



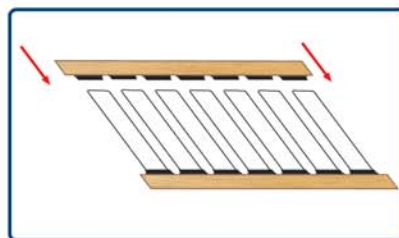
**STEP #2** - Put the two rails together with the top rail turned upside down. Position rails as shown. **Lightly** mark a center line on rail. Determine number of Glass Balusters and space out evenly. Layout glass baluster connector shoes. Maintain a maximum of 2-3/8" gap between stair glass baluster shoes.



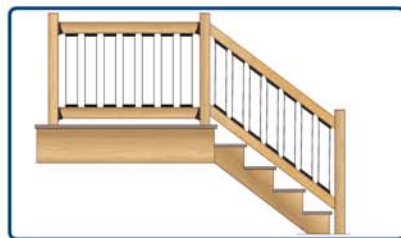
**STEP #3** - Place glass baluster connector shoes on center line. **Top and bottom baluster shoes connectors will be facing opposite directions.** Insert screws through connector shoes (start screw vertically and tilt screw to proper angle). Do not overtighten. Make sure screw head is inserted below Glass Baluster.



**STEP #4** - Apply a small amount of silicone caulk to inside of glass baluster connector shoe to insure a tight, movement-free installation. Insert balusters in bottom rail connector shoes.



**STEP #5** - Start Top Rail at an angle and insert balusters into top rail connector shoes. Make sure glass balusters are fully inserted into connector shoes.



**STEP #6** - Install stair rail assembly.

Please Note: Do not exceed a 4" gap between balusters. Gap between deck and bottom rail should not exceed 4". It is the responsibility of the installer to meet or exceed all code and safety requirements, and to obtain all required building permits. These instructions are only a guide and may not address every circumstance. The deck and railing installer should determine and implement appropriate installation techniques for each situation. Solutions® shall not be held liable for improper or unsafe installations.



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