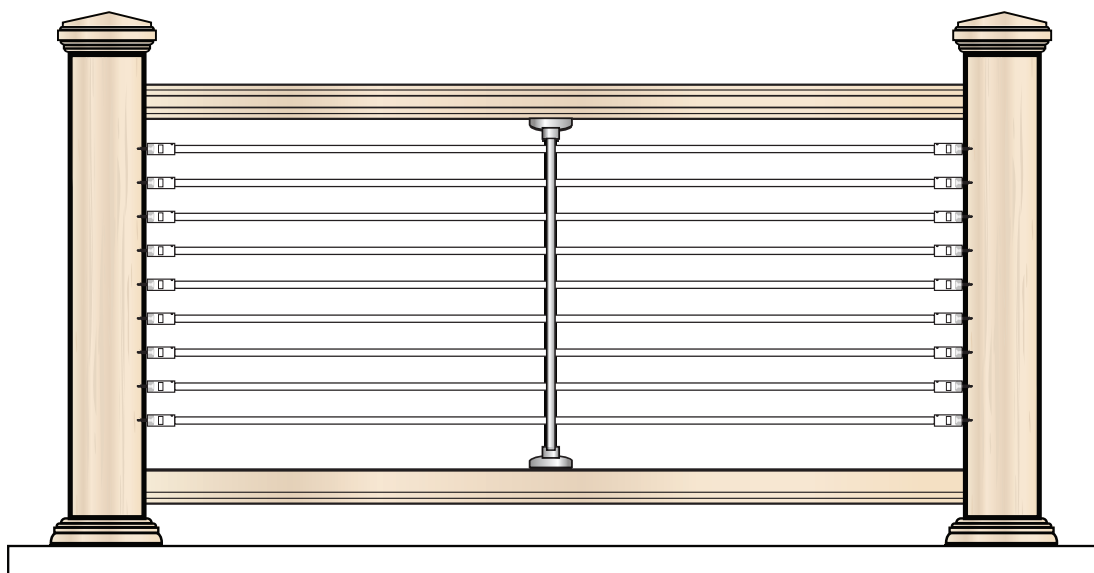


VueTube



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Disclaimer & Required Tools



Please read all instructions completely before starting any part of the installation.

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. Universal Horizontal Baluster System shall not be held liable for improper or unsafe installations.

The following installation guidelines are applicable for installation of Universal Horizontal Baluster System for railings and will work with most railing systems.

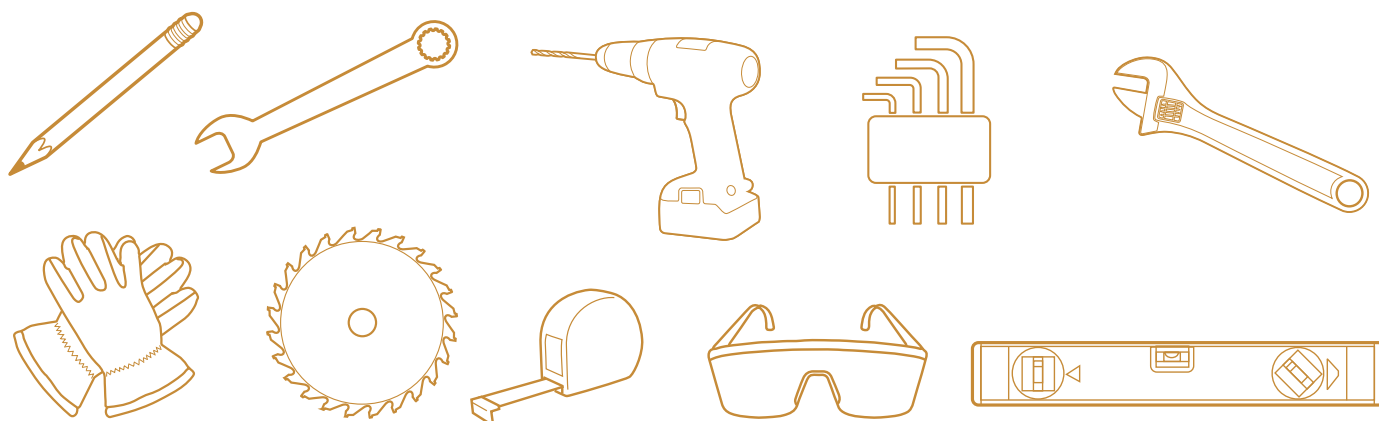
IMPORTANT: Make sure the drive tool/drill is configured or set to use the screw setting when driving and/or tightening all fasteners.

SAFETY: Always wear safety glasses and gloves when handling, cutting, drilling, and fastening materials.

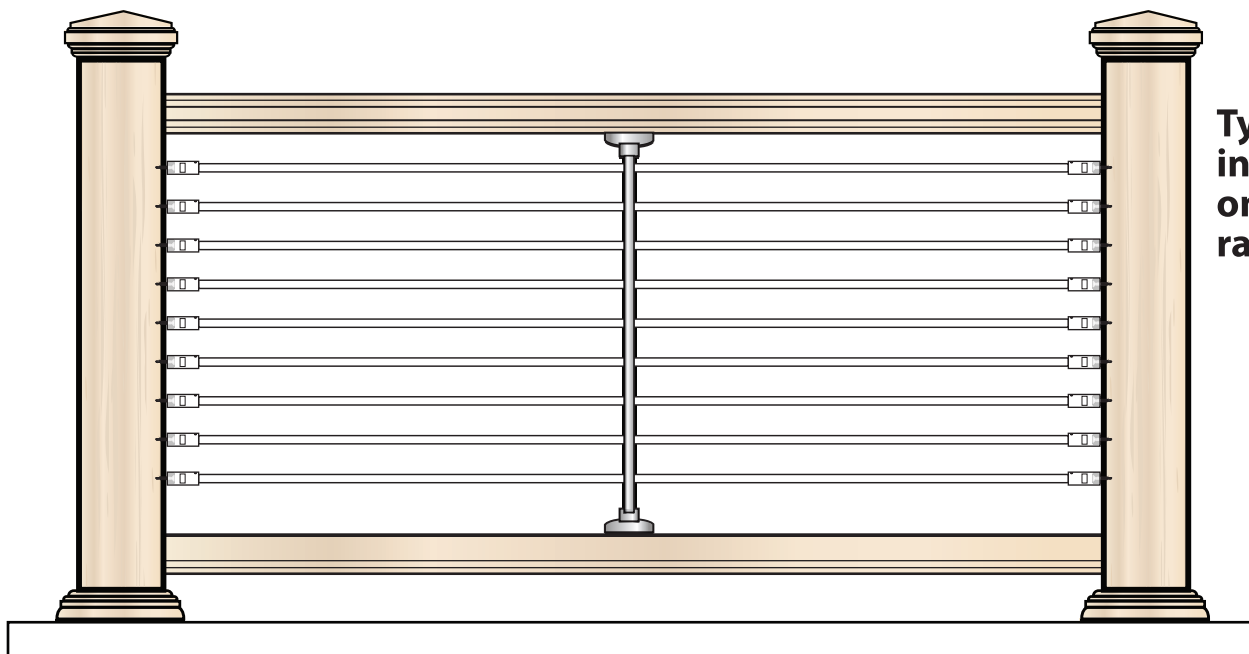
Failure to install this product in accordance with applicable building codes and following railing installation guidelines may lead to personal injury, affect rail system performance, and void the product warranty.

Tools Required for Installation of Baluster Components

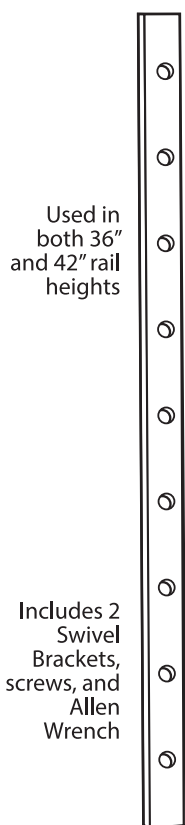
- | | | |
|----------------------------|--|--------------------------------|
| • Drill — set to low speed | • Allen wrench (included with blade balusters) | • Safety glasses |
| • #2 Square drive bit | • Chop saw with aluminum cutting blade | • Pencil |
| • 1/8" drill bit | • Level | • Gloves |
| • Adjustable wrench | | • Drilling template (optional) |
| • Tape measure | | |



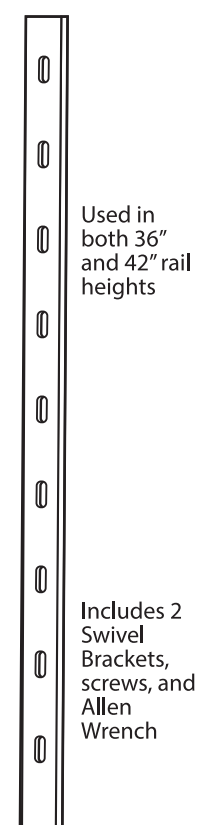
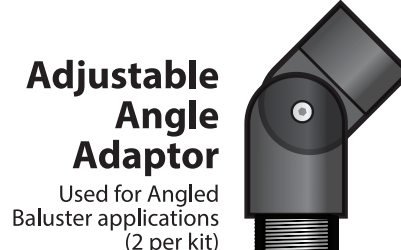
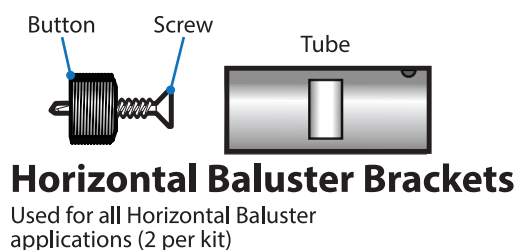
Hardware & Accessories



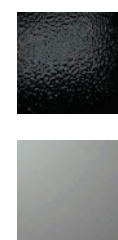
Typical installation on wood railing



Intermediate Level Blade Baluster

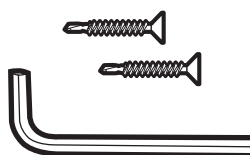
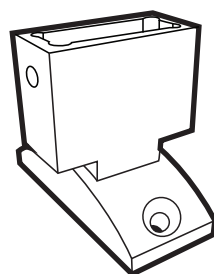


Intermediate Stair Blade Baluster



Color Choices

The Horizontal Baluster System comes in powder coat textured black and anodized aluminum color.



Swivel Bracket

Use with both level and stair applications. (2 Included with Blade Baluster)

Type of Railing Installation	Typical Baluster Count	
	36" Rail Height	42" Rail Height
Top and Bottom Rails Used	7	8
Top Rail Only Used	9	10

Baluster counts can vary depending on the railing size and heights. A 4-3/16" on center spacing is maintained to match the hole spacing in the Intermediate Blade Baluster.

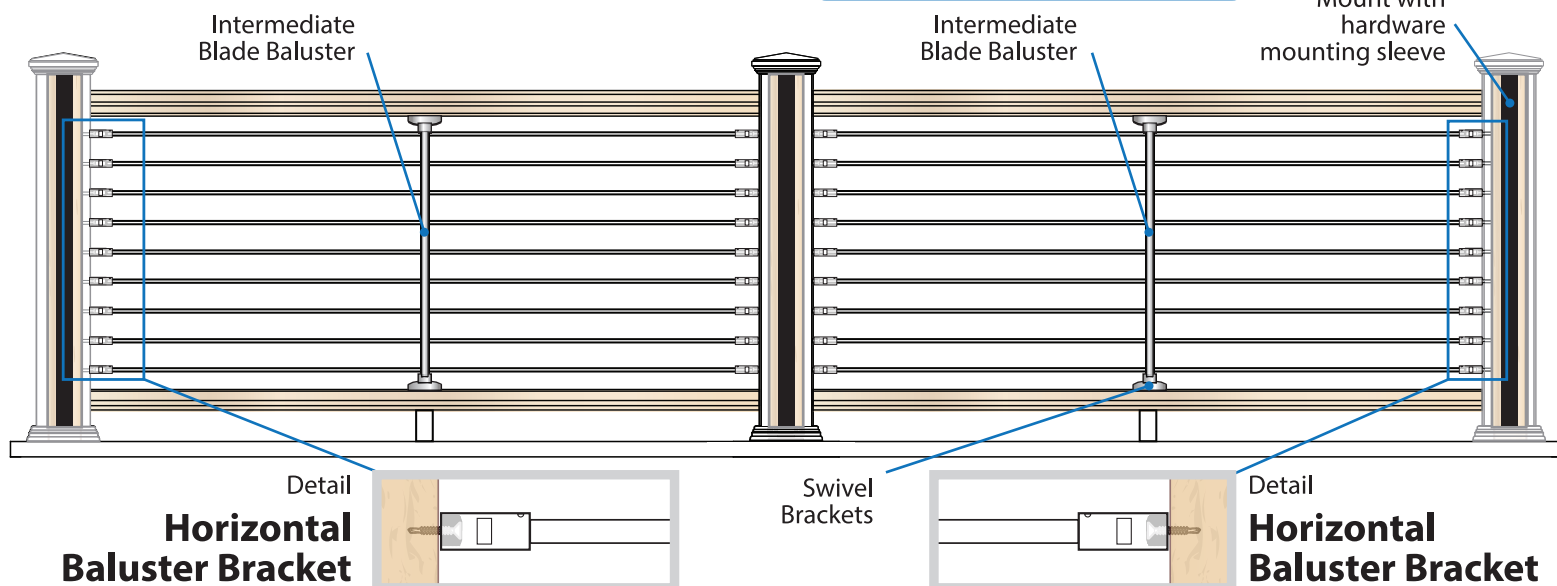
Pro-Series Post Mount & Post Options



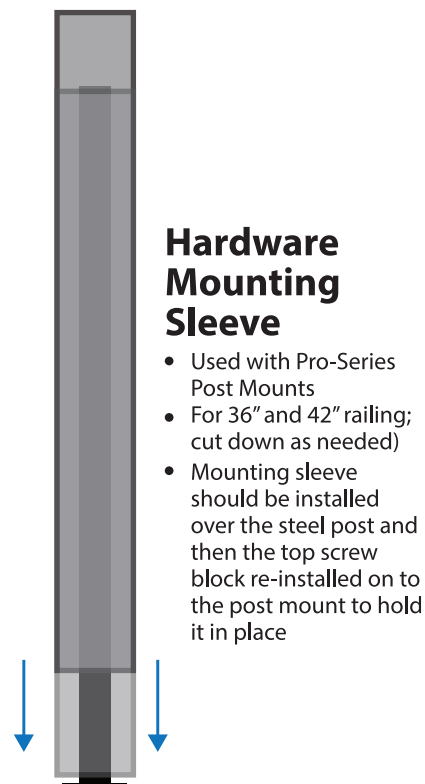
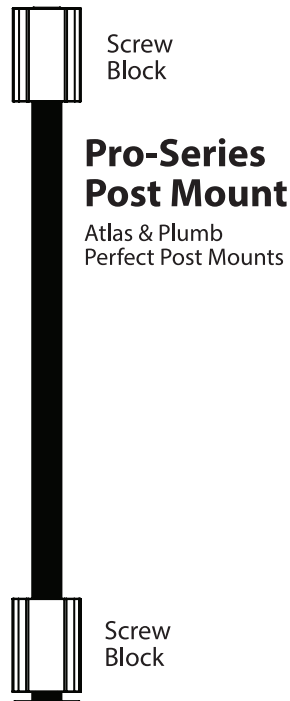
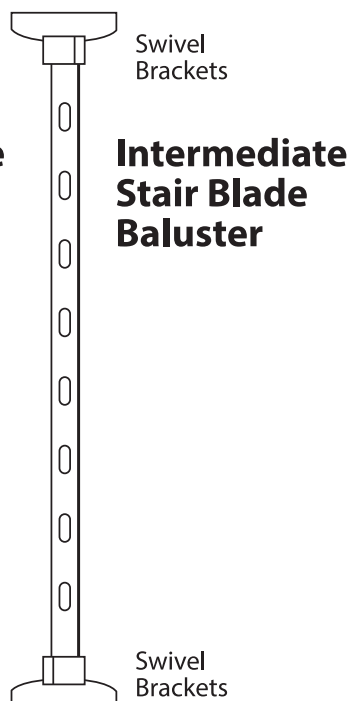
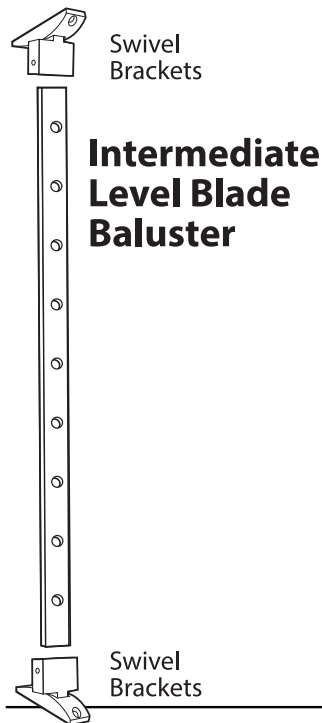
Typical installation Using Pro-Series Post Mount with Decorative Sleeve



Note: A Blade Baluster must be used if the span is greater than 48 Inches.



Post Options



Note: Some railing systems may require more Intermediate Blade Balusters to support the top rail. Maximum allowable unsupported span for the horizontal balusters is 48".



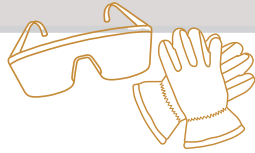
Note: Hardware mounting sleeve can be used with the Pro-Series Post Mount and function as a secure mounting platform for the Horizontal Baluster hardware.

Standard Installation Procedure Overview



Safety First

Wear gloves and safety glasses when installing!



Required Tools:

- Pencil
- Level
- Tape Measure
- Open-End Wrenches
- Drill
- Drill Bits
- Drilling Template
- Chopsaw
- Tape Measure
- Allen Wrench

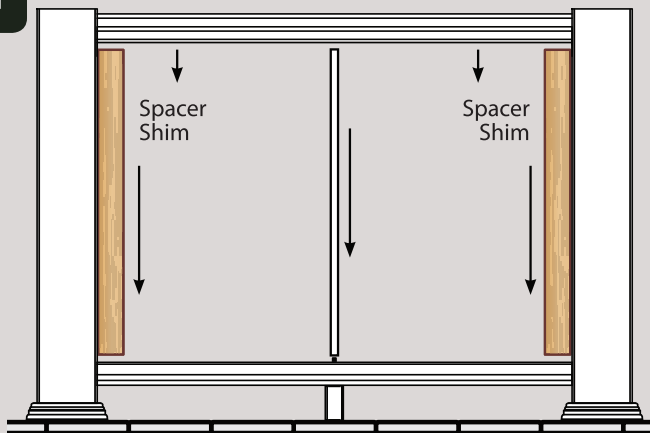
1

Check for Plumb on Posts

Use level and tape measure to make sure your wooden posts or post mounts are secure and plumb.



2



Install top and bottom railing as per manufacturer's installation guide.



Note: Before installing the Horizontal Baluster, you'll need to install the railing system framework you've chosen.

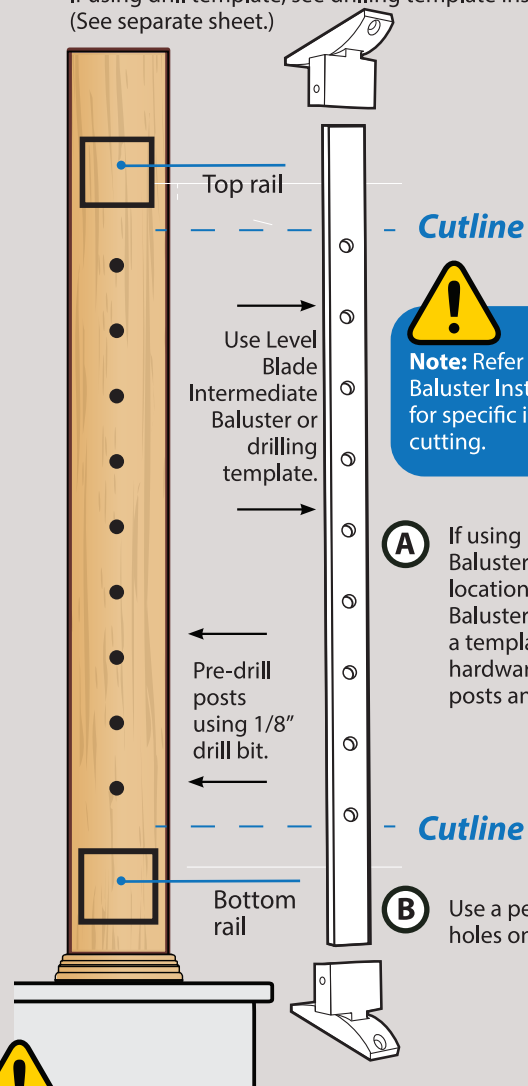
Helpful Hint:

Railing heights must be at least 36" or 42" depending on the application. Cut two spacer shims for between the top and bottom railings (as shown) to ensure proper spacing is maintained throughout the installation.

3

Mark Post For Bracket Locations Using Either Drill Template or Intermediate Baluster

If using drill template, see drilling template install instructions. (See separate sheet.)



Note: Refer to Intermediate Baluster Installation on page 8 for specific instructions on cutting.

A

If using Intermediate Baluster to mark hole locations, cut Intermediate Baluster to size, and use as a template to mark hardware locations on posts and decorative

B

Use a pencil to mark holes on post.



Note: If using drilling template to mark hole locations, see drilling template installation sheet. (See separate sheet.)

Typical Level Bracket Installation



LEVEL



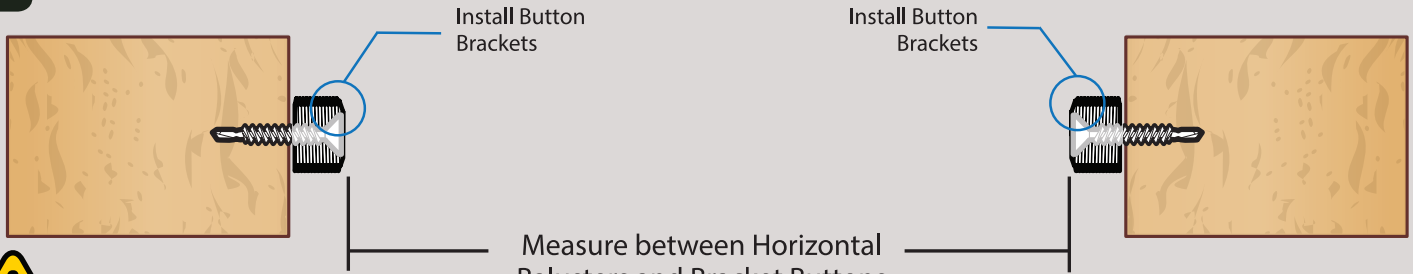
Note: Make sure all posts are marked or pre-drilled as needed. See page 8.

Required Tools:

- Screw gun with #2 square drive bit
- Adjustable Wrench

1

Install Bracket Button



Measure between Horizontal Balusters and Bracket Buttons
Baluster cut size minus 1/8"



Note: When using decorative post sleeves, longer screws may be needed to securely fasten the button bracket to the supporting post.

2

Install Horizontal Baluster

A Install Tube Brackets

Slide Tube Brackets onto Baluster.

On longer sections over 6 Ft. the Tube Brackets can be completely installed on one side first and Baluster fitted into the bracket making it easier to hold and install the other side.

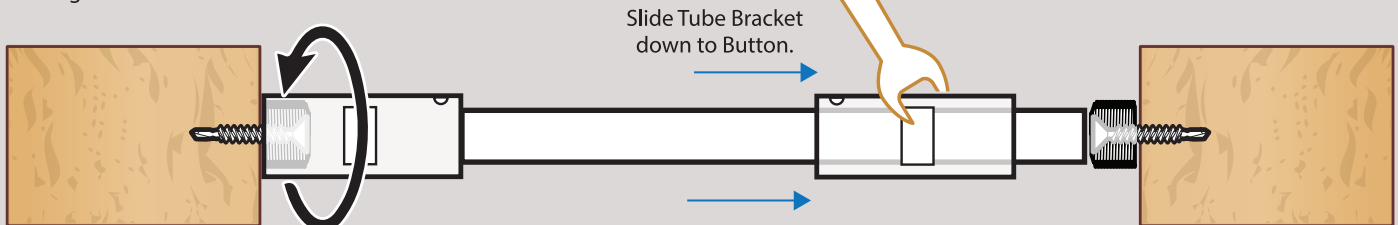
B Install Baluster

Set Baluster between Button Bracket and hand tighten both sides.

C

Final Tighten

Use adjustable or open end wrench to tighten and move the allen set screws to the desired location.



Note: If using Blade Balusters, reference page 8 for installation details for installing brackets.

Note: Desired Set Screw Location.

Take care not to scratch the brackets as you tighten them with the wrenches.



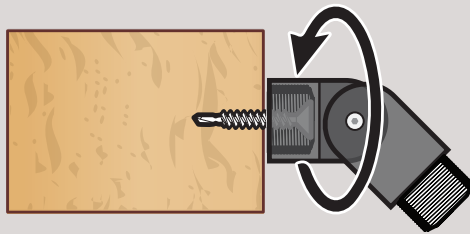
NOTE: TIGHTEN ALL ALLEN SET SCREWS AT THE END OF THE INSTALLATION.

Adjustable Angle Bracket Installation



Adjustable Angle

1 Install Adjustable Angle Brackets



Note: Make sure all posts are marked or pre-drilled as needed. See page 8.

Note: Tube Brackets can be installed and tightened on one side first.

Required Tools:

- Screw Gun
- Adjustable Wrench
- #2 Screw Bit



Install Button Brackets

Install the adjustable angle brackets and position them to the desired pitch or angle location and tighten to fix the position.



Measure Baluster

Measure between the Brackets and cut the Balusters by 1/8" less.

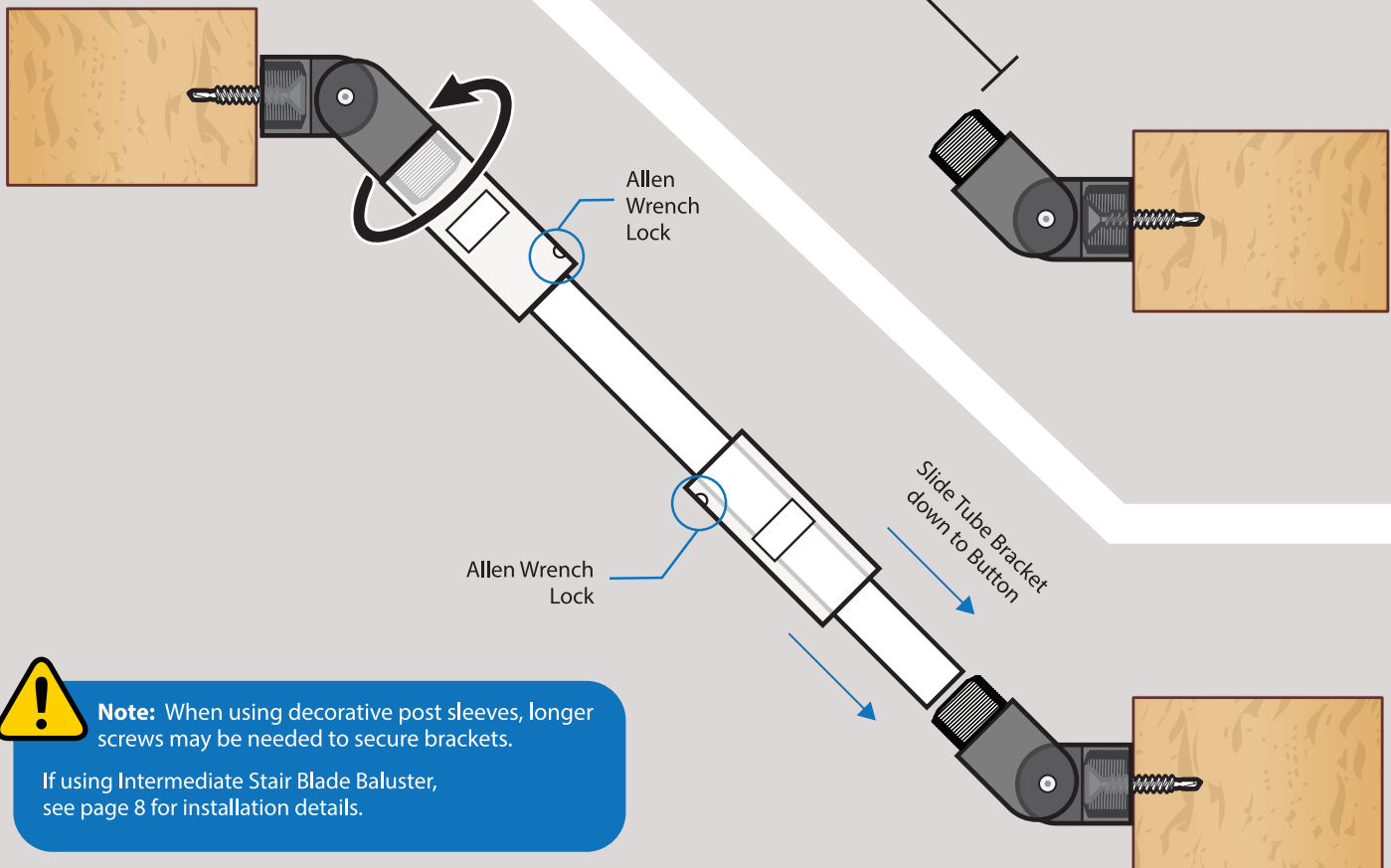


Install Tube Brackets

Install as you would the level rail.

Baluster cut size minus 1/8"

2 Install Baluster



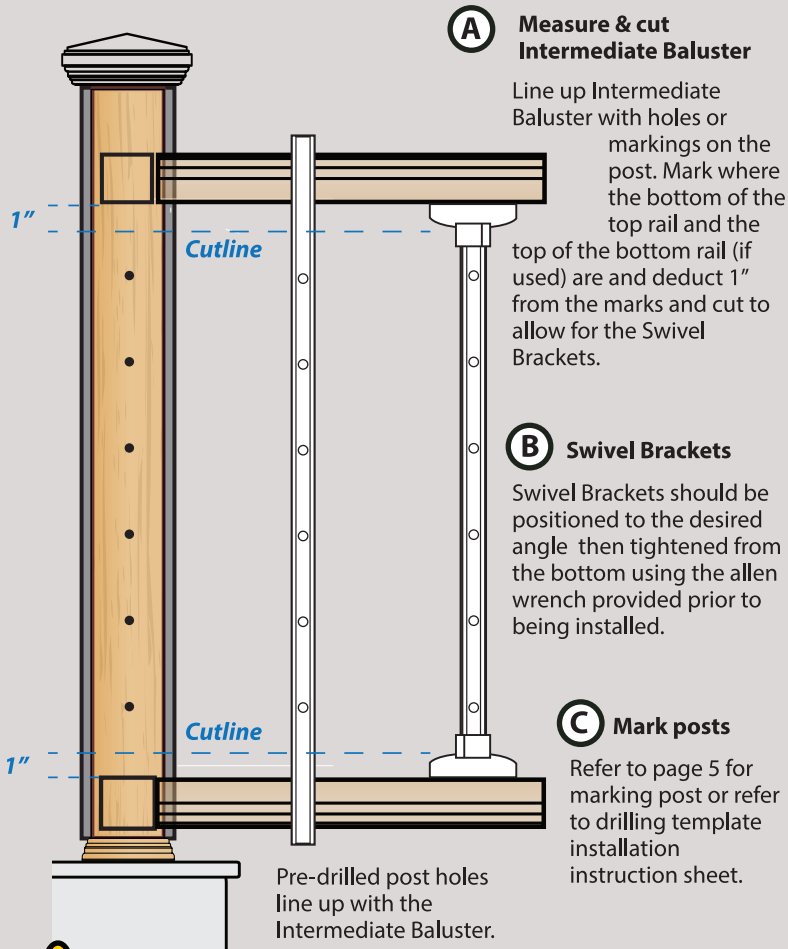
Note: When using decorative post sleeves, longer screws may be needed to secure brackets.

If using Intermediate Stair Blade Baluster, see page 8 for installation details.

Intermediate Blade Baluster Installation



When Using an Installed Post



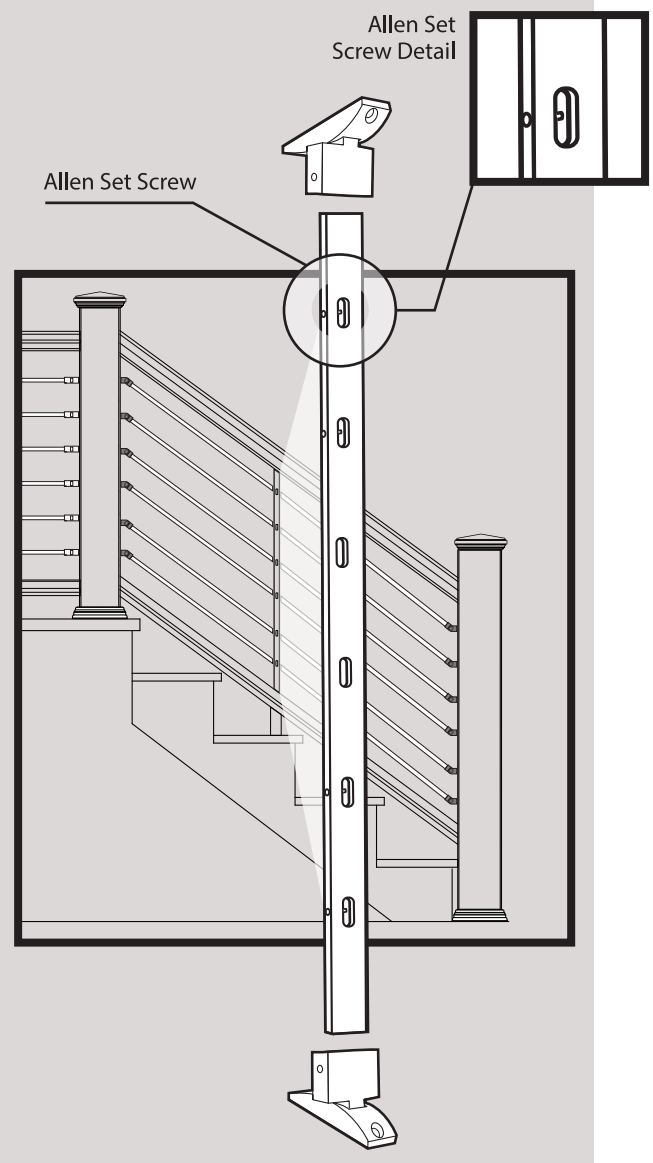
Required Tools:

- #2 Square Drive Bit (for the screws)
- Chop Saw

Intermediate Stair Railing Installation

Stair rail application

The Balusters are marked, cut, and installed the same as with level installation.



Note: Note the location of the Blade Baluster and Baluster bracket allen set screws to ensure uniformity



D Install Intermediate Baluster

Determine the location of the Intermediate Baluster. Then pre-drill the holes for the bottom Swivel Bracket on the bottom railing. The holes should be pre-drilled on the same angle as the Bracket. Install the bottom Swivel Bracket then use a level to plumb the Baluster, mark and pre-drill the top railing and install the top Swivel Bracket.



Note: The clear span of the horizontal Baluster shall not exceed 48" in length. Some railing systems may require adding vertical support and may need additional Intermediate Blade Balusters installed.



NOTE: TIGHTEN ALL ALLEN SET SCREWS AT THE END OF THE INSTALLATION.