



Aluminum Railing

PLEASE READ OWNER'S MANUAL COMPLETELY
BEFORE ASSEMBLING YOUR RAILING KIT.

34109527BOM 2/2013

Models

73013137 / 73017821
73013138 / 73017822
73013139 / 73017823
73013140 / 73017824

Elite Installation Instructions

Owner's Manual

Version

2.1



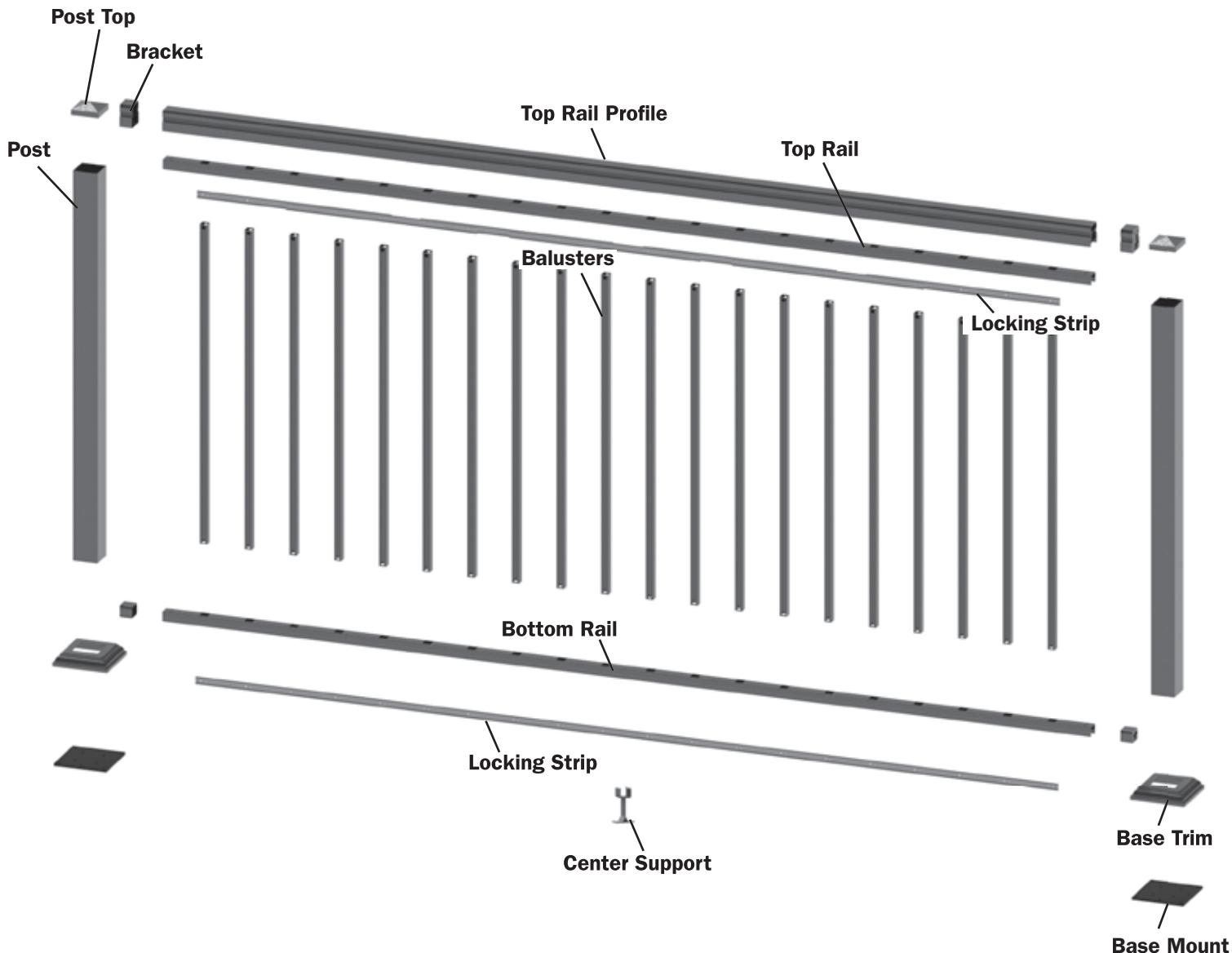
BEFORE You BEGIN:

It is the responsibility of the installer to meet and/or exceed all code and safety requirements, and to obtain all required building permits. The deck and railing installer should determine and implement appropriate installation techniques for each installation. Barrette and its distributors shall not be held liable for improper or unsafe installations.

IMPORTANT:

This instruction manual contains 4 types of installation options:

- Straight rail installation
- Straight rail with vinyl topper
- Angled rail installation
- Angled rail with vinyl topper



6' Elite Railing Kits Include:

- (1) Elite Top Rail Profile
- (2) Elite Rails
- (2) Locking Strips
- (2) Center Support
- (1) Bracket Kit with Screws
- (15) Square Balusters

8' Elite Railing Kits Include:

- (1) Elite Top Rail Profiles
- (2) Elite Rails
- (2) Locking Strips
- (4) Center Support
- (1) Bracket Kit with Screws
- (20) Square Balusters

STRAIGHT RAIL INSTALLATION

1

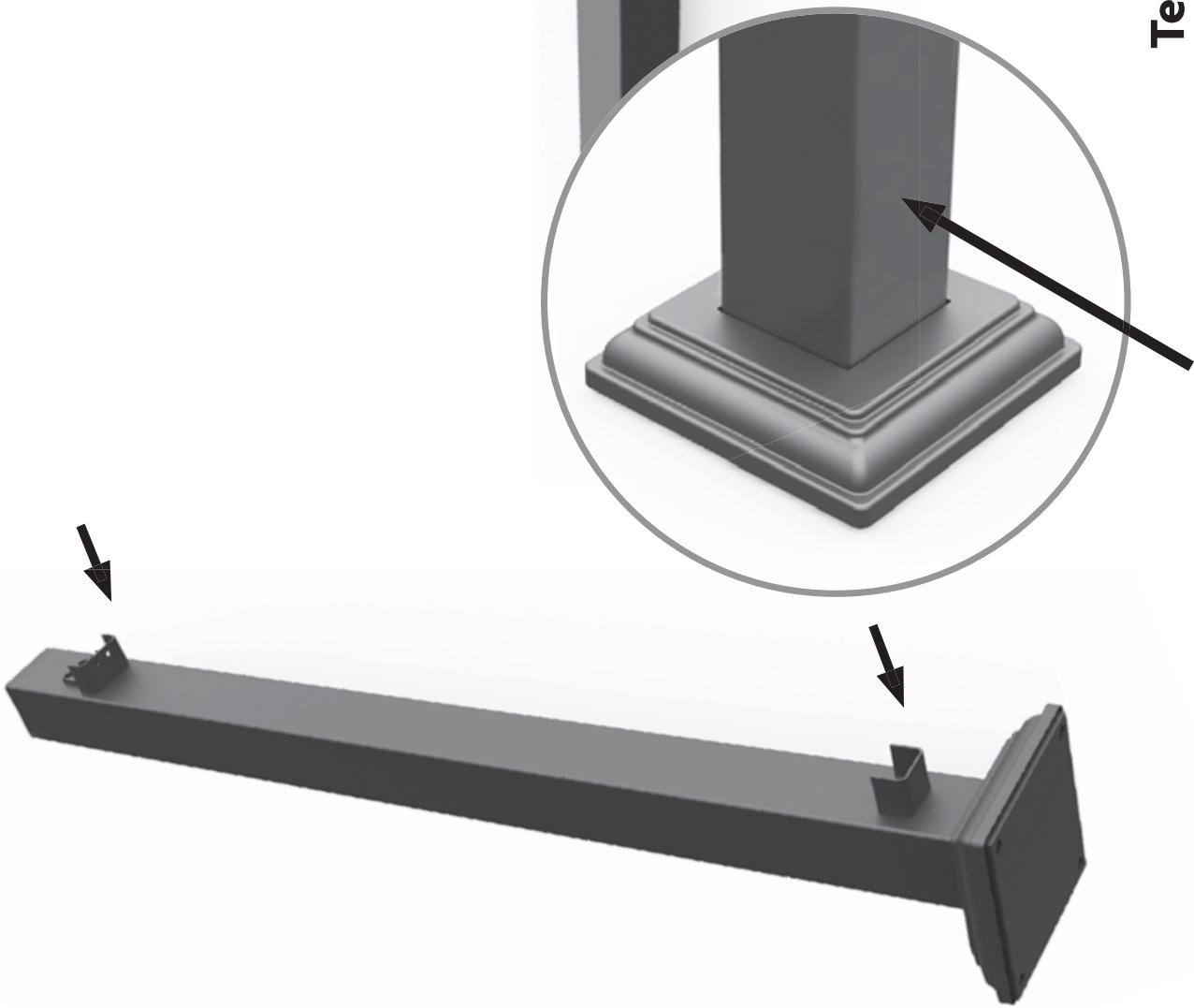
Closely follow post installation instructions.

2

*Make sure base trim is installed

Install brackets

- With base trim installed on bottom of post, unroll paper install template and tape to post, ensuring the bottom of the template rests on the top of the base trim. Predrill through all marked locations on installation template "L" (not "A") into aluminum post with a $\frac{1}{8}$ " drill bit. Do this for all marked locations for both top and bottom brackets.
- Screw bottom brackets into post using #8x1 $\frac{1}{2}$ " Pan Head screws (2 per bracket).
- Screw top brackets into post using #8x1 $\frac{1}{2}$ " Pan Head screws (4 per bracket).



Template



BASIC INSTALLATION INSTRUCTIONS:
FOR 1" ING-Bracket Installation - Predrill in the 6 (Six) locations marked as "L"°.
FOR ANGULAR BRACKET INSTALLATION - Predrill in the 4 (Four) locations marked as "A"°.

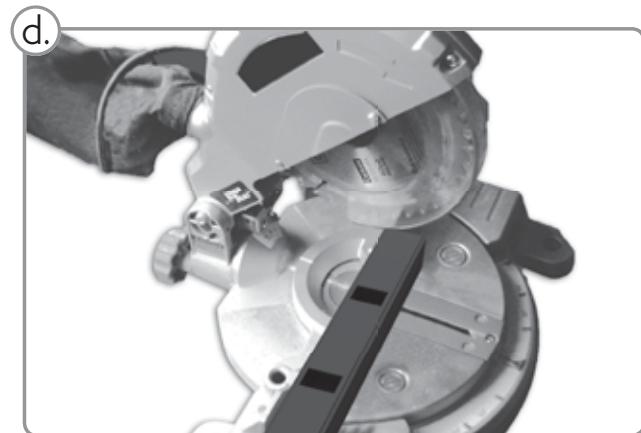
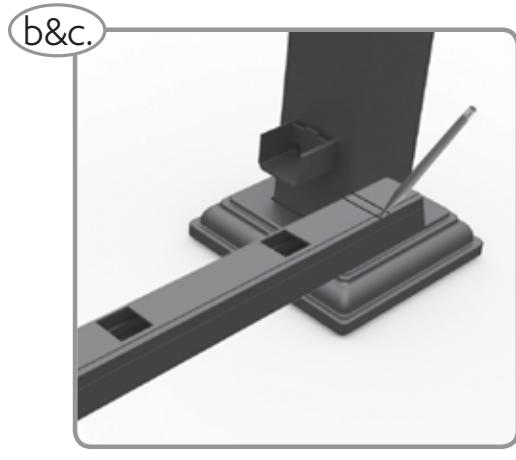
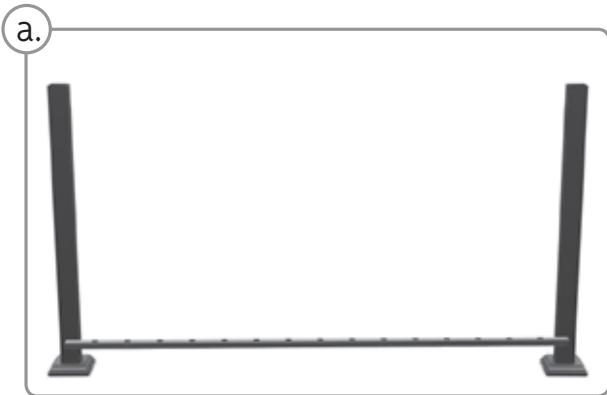
FOLD LINE FOR
ELITE VINYL BASE

STRAIGHT RAIL INSTALLATION

3

Cut rails to length (top rail, bottom rail, top rail profile).

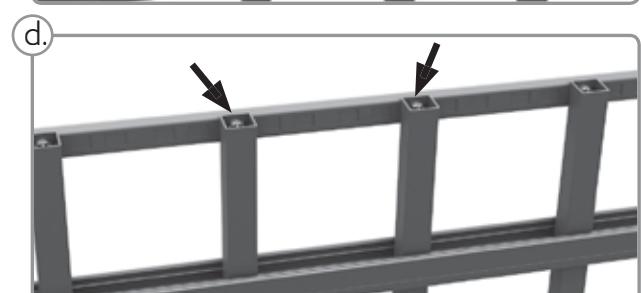
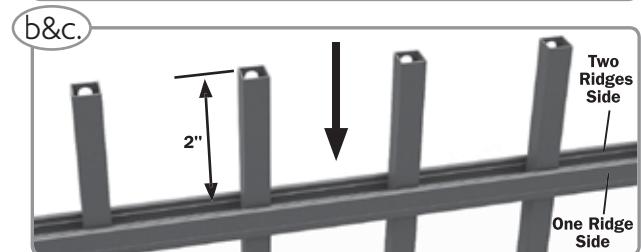
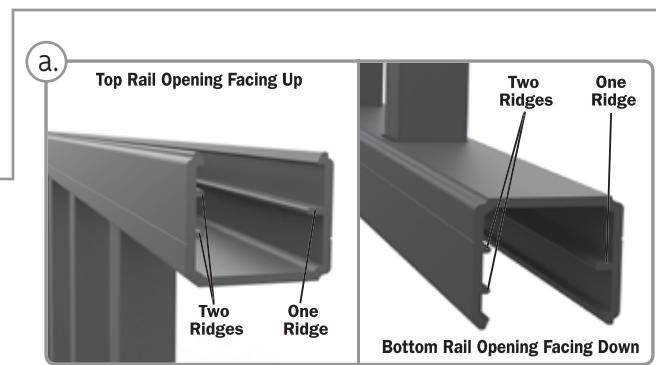
- Place bottom rail across post opening leaving equivalent spacing from last baluster to post on each end. Make sure there is even spacing from baluster hole to post.
- Mark rail flush to post.
- From marked line, mark additional parallel line $\frac{3}{8}$ " from first line, to allow for bracket clearance.
- Align top rail and top rail profile with bottom rail and mark before cutting to size. Then cut same lengths with a saw (use fine tooth carbide blade).



4

Build out rail section

- Place top and bottom rail on a smooth, flat and clean surface. Then orient the top and bottom rails so that the "ridges" inside the rails are on the same side, and both rails have their openings at opposing sides.
- Thread all balusters through holes in rails being careful to have the "hole" in each baluster going in the same direction, and proper direction. Holes need to be on the "two ridge" side.
- Make sure balusters threaded through rails are about 2" above rail and in-line with each other.
- Snap in bumps from plastic locking strip into holes of the balusters for both top and bottom rails. Make sure arrows on locking strips face rails.
- If the rails were cut shorter in Step 2, then there will be some "extra" locking strip at the end of install. Use scissors to cut off excess (leave approximately 2" of strip after the last engaged bump).
- Push first baluster into bottom rail, followed by the second and third, until the last baluster. Then repeat for top rail. The engagement between the rails, balusters and locking strip is about 75% at this point.

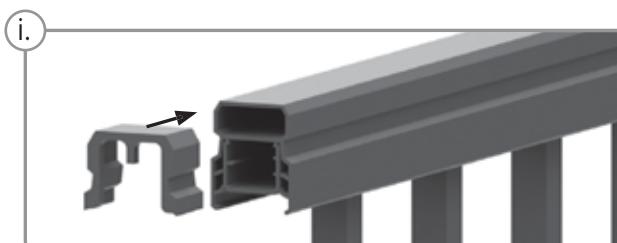
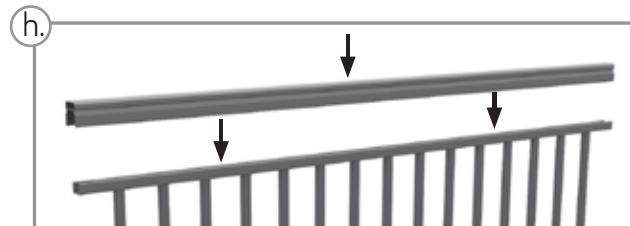
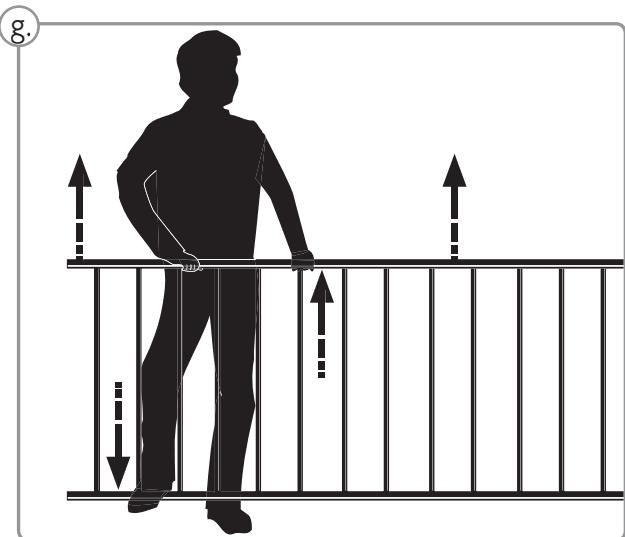


STRAIGHT RAIL INSTALLATION

g. Stand up rail section and fully lock the balusters into the rails. Place one foot on the top of the bottom rail, between second and third baluster while at the same time placing a hand under the bottom of the top rail between second and third baluster. Push with foot and pull with hand until locking is complete (You should hear a snap). Repeat this process for the middle and end of the panel. All the balusters should now be "locked" into the top and bottom rails. (NOTE: If a snap is not heard or felt, use a rubber mallet to tap underneath of top rail to ensure a full connection.)

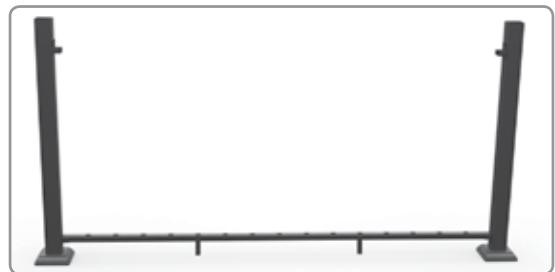
h. Line up top rail profile on top of the top rail. Press it down onto the top rail so it fits snug.

i. Slide bracket covers on ends of both top and bottom rails.



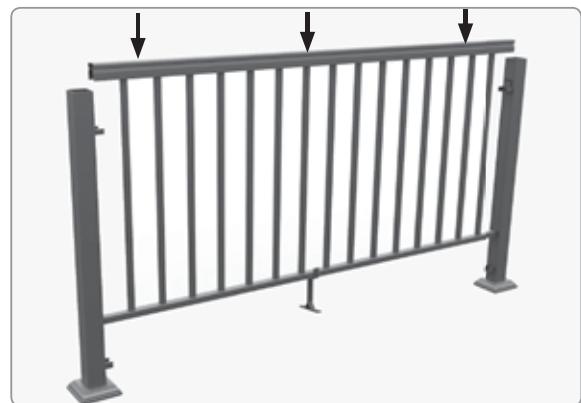
5 Install support brace

- Two support braces are included with 6' railing kits. For code purposes, only one is required for installations in the U.S., while all three are required in Canada. Spread out the braces proportionately (place center one in middle).
- Four support braces are included with 8' railing kits. For code purposes, only two are needed for installations in the U.S., while all four are required in Canada. Spread out the braces proportionately.



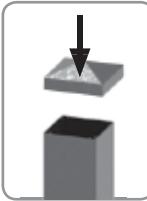
6 Rails to Posts

- Bring assembled rails between posts, elevated above brackets assembled in Step 2.
- Once centered, slowly lower rail assembly carefully to allow full engagement between section and brackets in all four locations on posts. NOTE: The top top rail profile should rest on the bottom of the bracket that is screwed into post
- Attach brackets to rails – Predrill two holes from under the bottom of the top rail through rail. Complete for each top rail bracket. Drive #8x2" Pan Head screws (2 per bracket) through drilled holes.



7 Finishing Up

If using a pyramid post top, push to fasten on top of posts. NOTE: A rubber mallet may be needed to ensure tight connection.



STRAIGHT RAIL WITH VINYL TOPPER AND POST INSTALLATION

1

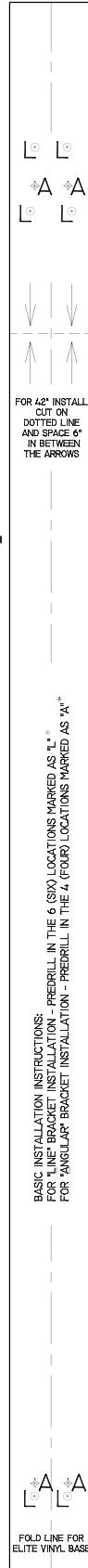
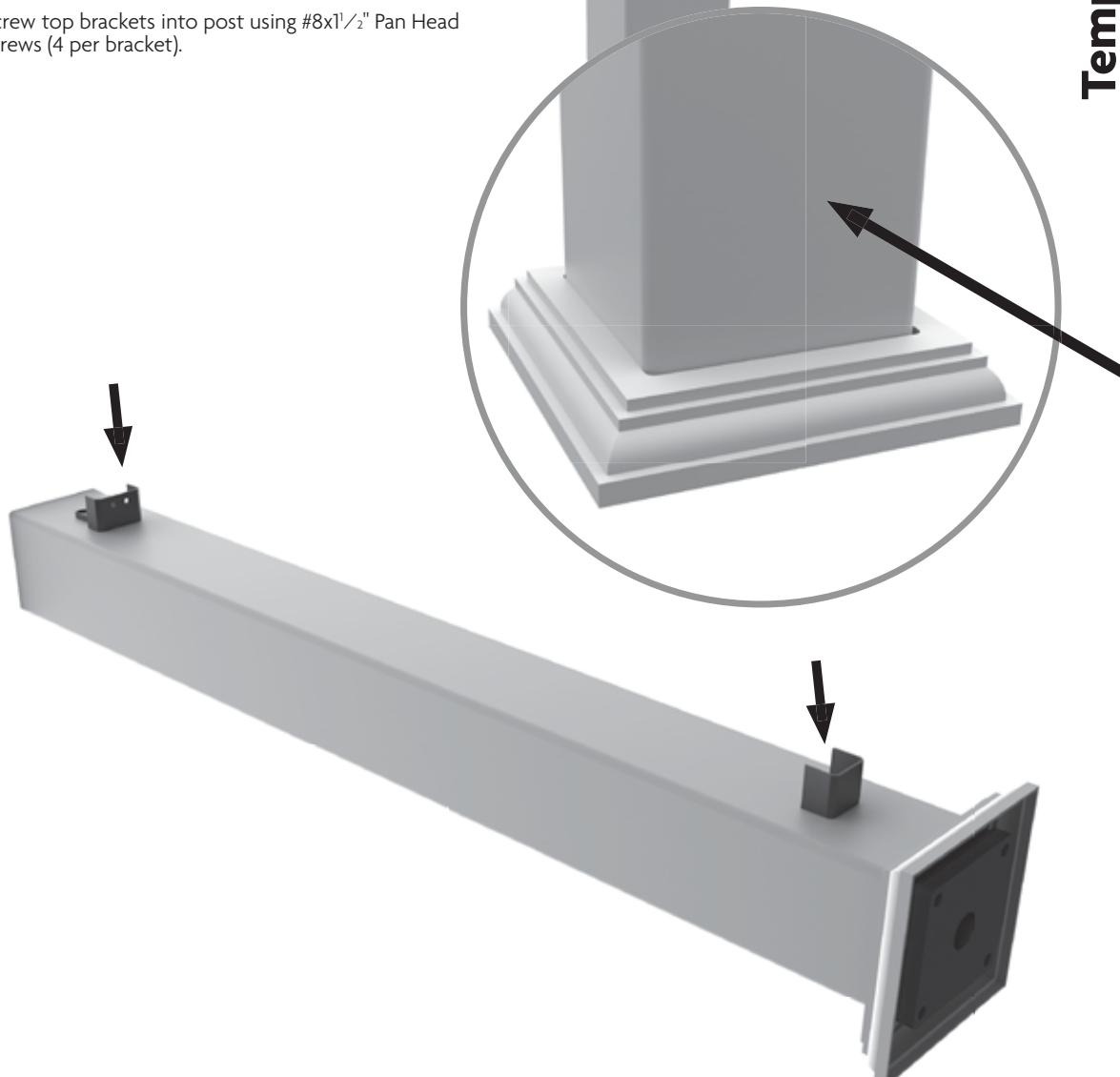
Closely follow post installation instructions for vinyl posts.

2

*Make sure base trim is installed

Install brackets

- With base trim installed on bottom of vinyl post, unroll paper install template and tape to post, ensuring the bottom of the template rests on the top of the base trim as specified. Predrill through all marked locations on installation template "L" (not "A") into vinyl post with a $\frac{9}{64}$ " drill bit. Do this for all marked locations for both top and bottom brackets.
- Screw bottom brackets into post using #8x1 $\frac{1}{2}$ " Pan Head screws (2 per bracket).
- Screw top brackets into post using #8x1 $\frac{1}{2}$ " Pan Head screws (4 per bracket).

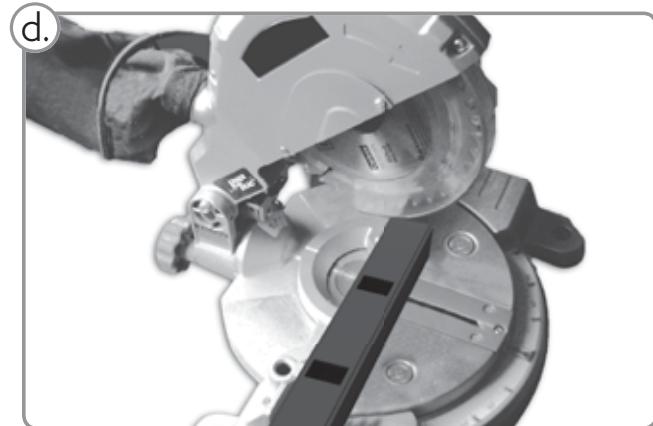
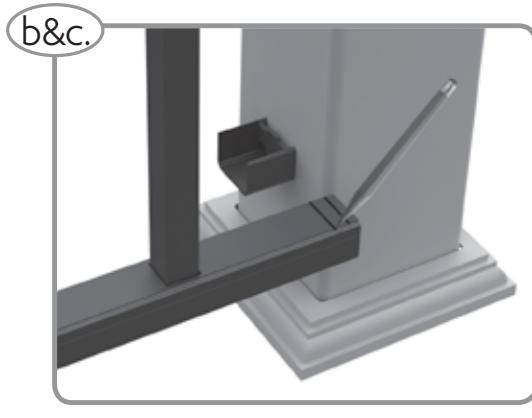
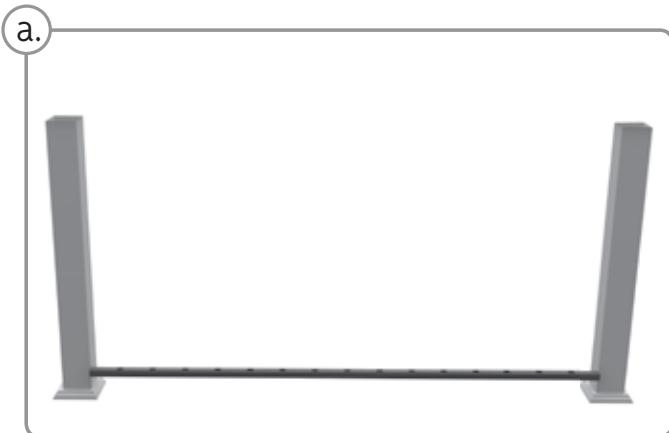


STRAIGHT RAIL WITH VINYL TOPPER AND POST INSTALLATION

3

Cut rails to length (top rail, bottom rail, top rail profile).

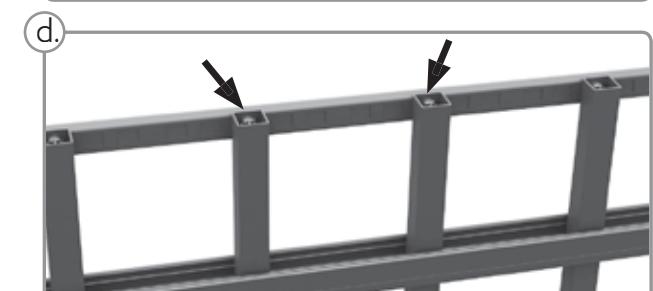
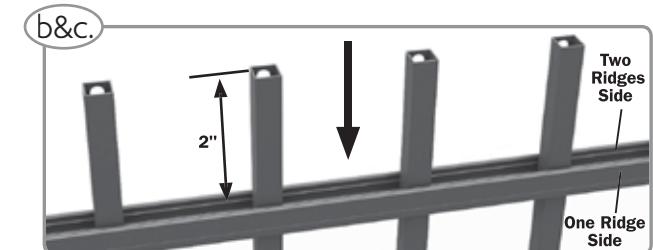
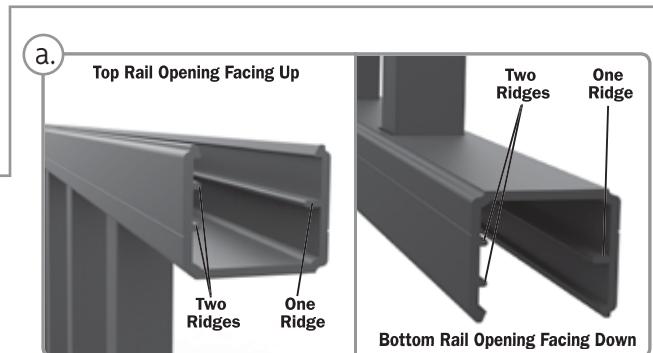
- Place bottom rail across post opening leaving equivalent spacing from last baluster to post on each end. Make sure there is even spacing from baluster hole to post.
- Mark rail flush to post.
- From marked line, mark additional parallel line $\frac{3}{8}$ " from first line, to allow for bracket clearance.
- Align top rail and top rail profile with bottom rail and mark before cutting to size. Then cut same lengths with a saw (use fine tooth carbide blade).



4

Build out rail section

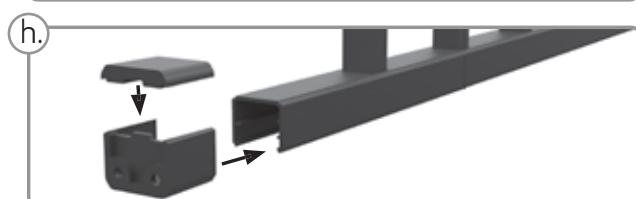
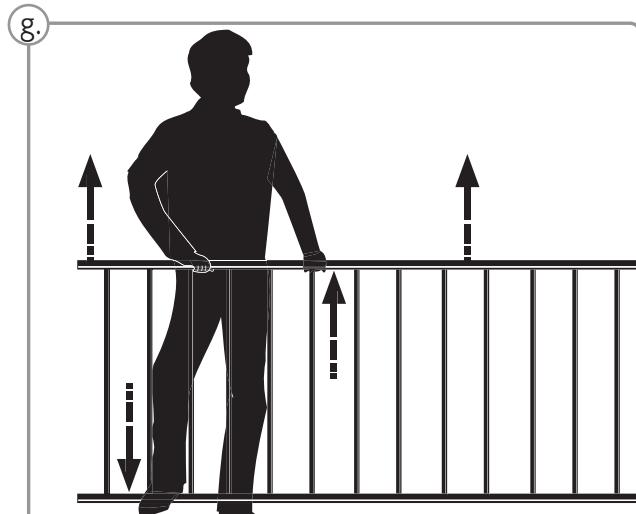
- Place top and bottom rail on a smooth, flat and clean surface. Then orient the top and bottom rails so that the "ridges" inside the rails are on the same side, and both rails have their openings at opposing sides.
- Thread all balusters through holes in rails being careful to have the "hole" in each baluster going in the same direction, and proper direction. Holes need to be on the "two ridge" side.
- Make sure balusters threaded through rails are about 2" above rail and in-line with each other.
- Snap in bumps from plastic locking strip into holes of the balusters for both top and bottom rails. Make sure arrows on locking strips face rails.
- If the rails were cut shorter in Step 2, then there will be some "extra" locking strip at the end of install. Use scissors to cut off excess (leave approximately 2" of strip after the last engaged bump).
- Push first baluster into bottom rail, followed by the second and third, until the last baluster. Then repeat for top rail. The engagement between the rails, balusters and locking strip is about 75% at this point.



STRAIGHT RAIL WITH VINYL TOPPER AND POST INSTALLATION

g. Stand up rail section and fully lock the balusters into the rails. Place one foot on the top of the bottom rail, between second and third baluster while at the same time placing a hand under the bottom of the top rail between second and third baluster. Push with foot and pull with hand until locking is complete (You should hear a snap). Repeat this process for the middle and end of the panel. All the balusters should now be "locked" into the top and bottom rails. (NOTE: If a snap is not heard or felt, use a rubber mallet to tap underneath of top rail to ensure a full connection.)

h. Slide bracket covers on ends of bottom rails.

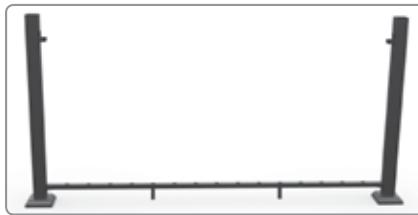


5

Install support brace

a. Two support braces are included with 6' railing kits. For code purposes, only one is required for installations in the U.S., while all three are required in Canada. Spread out the braces proportionately (place center one in middle).

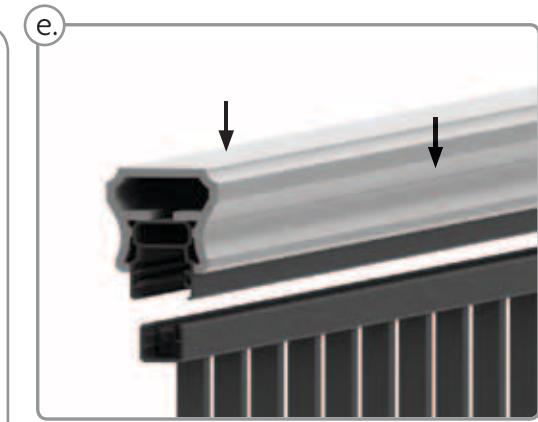
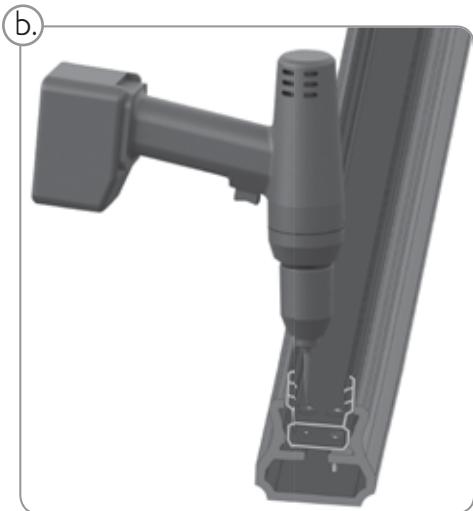
b. Four support braces are included with 8' railing kits. For code purposes, only two are needed for installations in the U.S., while all four are required in Canada. Spread out the braces proportionately.



6

Install Toppers

- a. Cut the vinyl topper the exact distance between posts. Fasten then vinyl topper as follows:
- b. From underneath the aluminum rail Top Rail Profile, drill two holes with a 3/16" drill bit.
- c. Then fit the vinyl topper over the aluminum top rail profile.
- d. Once the two parts are nested together, drive two #10 x 1" screws through the drilled holes of the aluminum profile and into the mid-section of the vinyl topper. Repeat this for both ends and middle of rail installation (6 screws needed per topper installed).
- e. Once vinyl topper is secure to the aluminum profile, align and press it down onto the top rail so its snug.

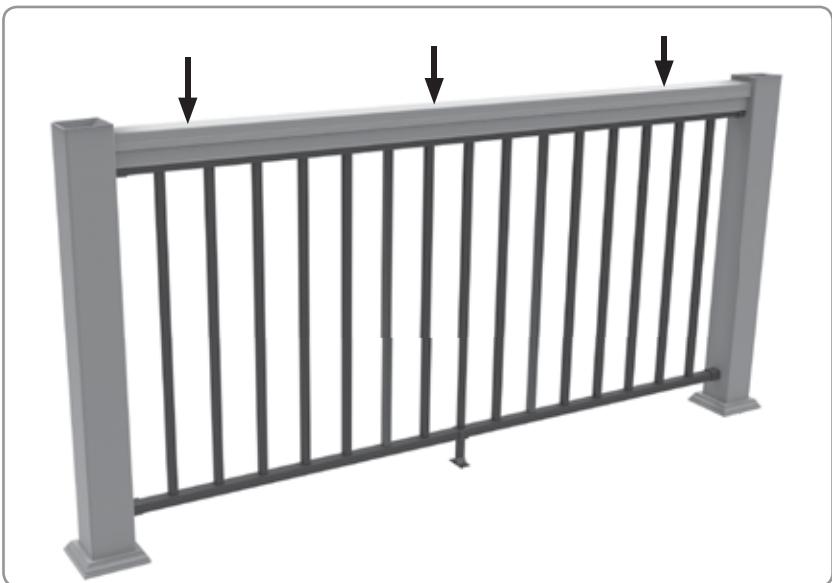


STRAIGHT RAIL WITH VINYL TOPPER AND POST INSTALLATION

7

Rails to Posts

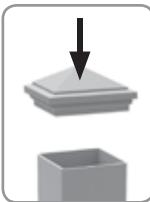
- a. Bring assembled rails between posts, elevated above brackets
- b. Once centered, slowly lower rail assembly carefully to allow full engagement between section and brackets in all four locations on posts. NOTE: The top top rail profile should rest on the bottom of the bracket that is screwed into post
- c. Attach top brackets to top rails – Predrill two holes from under the bottom of the top rail through rail. Complete for each top rail bracket. Drive #8x2" Pan Head screws (2 per bracket) through drilled holes.



8

Finishing Up

Secure vinyl post tops to posts.



ANGLED RAIL INSTALLATION

1

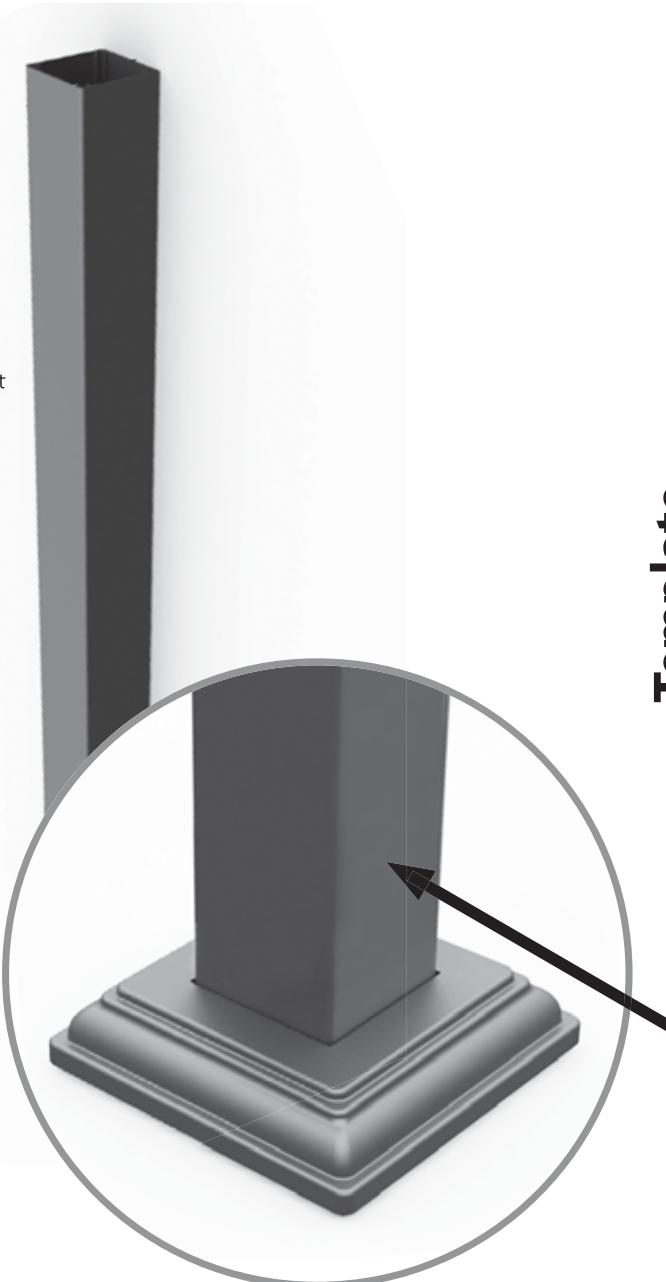
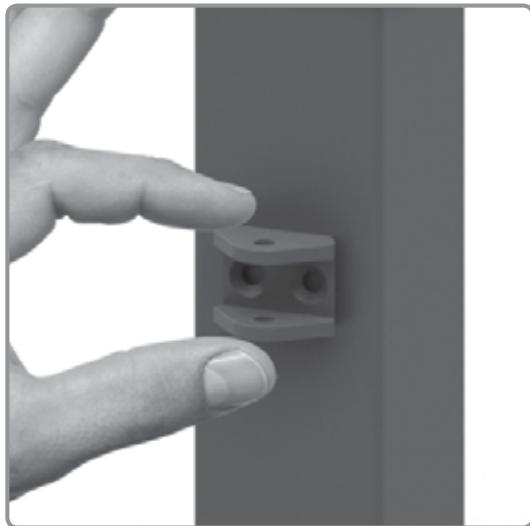
Closely follow post installation instructions.

2

*Make sure base trim is installed

Install angle brackets

- With base trim installed on bottom of post, unroll paper install template and tape to post, ensuring the bottom of the template rests on the top of the base trim. Predrill through all marked locations on installation template "A" (not "L") into aluminum post with a $\frac{1}{64}$ " drill bit. Do this for all marked locations for both top and bottom brackets.
- Install the angle brackets at the respective heights instead of line brackets. NOTE: The base of the angled bracket installs horizontally in orientation (screws beside each other)
- Attach top and bottom bases to posts with #10 x $1\frac{1}{2}$ " flat head screws provided (2 per bracket).



Template

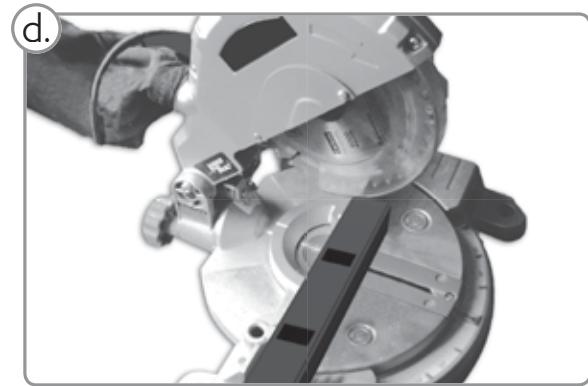
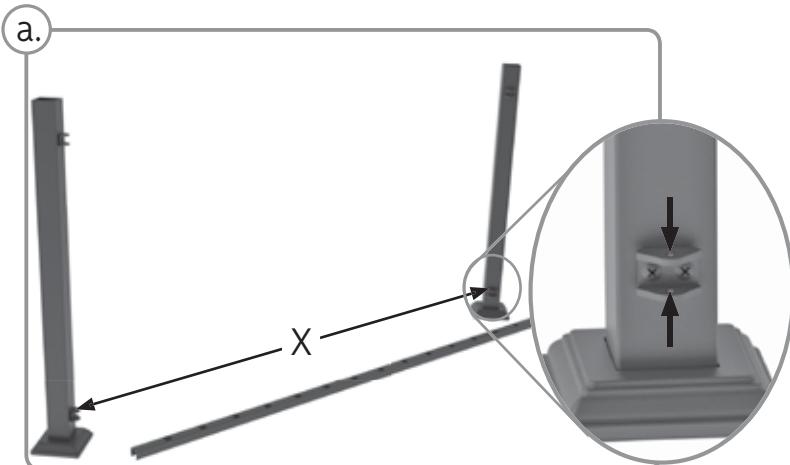


ANGLED RAIL INSTALLATION

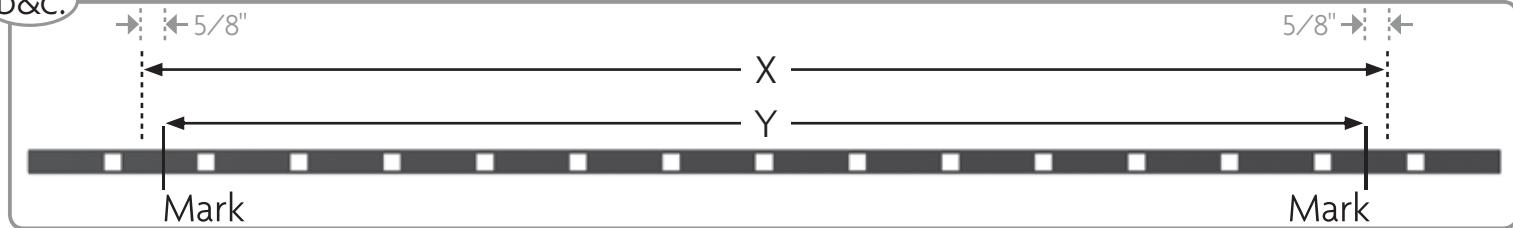
3

Cut rails to length (top rail, bottom rail, top rail profile).

- Measure the distance between bottom rail post bracket bases (from hole to hole). This will be measurement "X"
- Subtract $1\frac{1}{4}$ " from length measured in Step 3a (X). This final measurement will be "Y"
- Mark ends of top and bottom rails the length from Step 3b ("Y") being sure that the space for the last baluster hole to the end of the rail is the same on each end.
- Cut top and bottom rails and top rail profile at the same lengths with a saw (use fine tooth carbide blade).



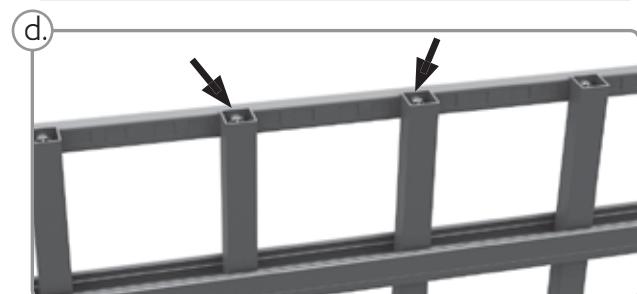
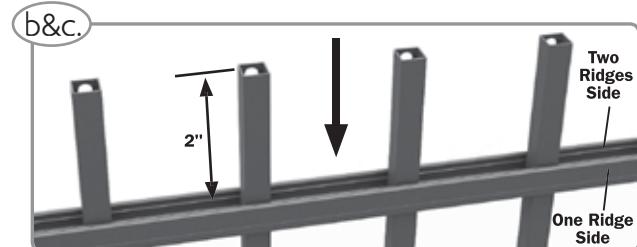
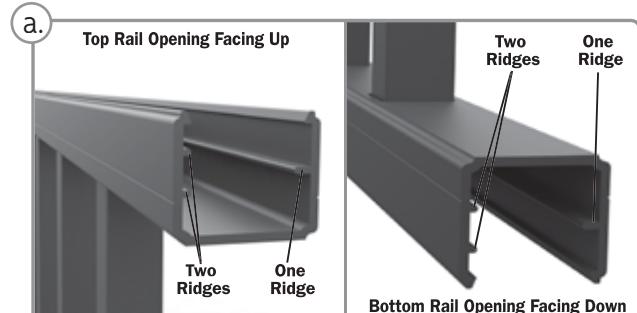
b&c.



4

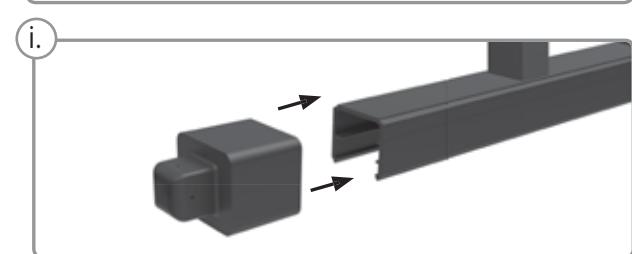
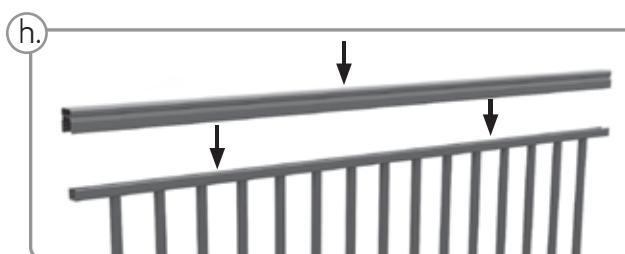
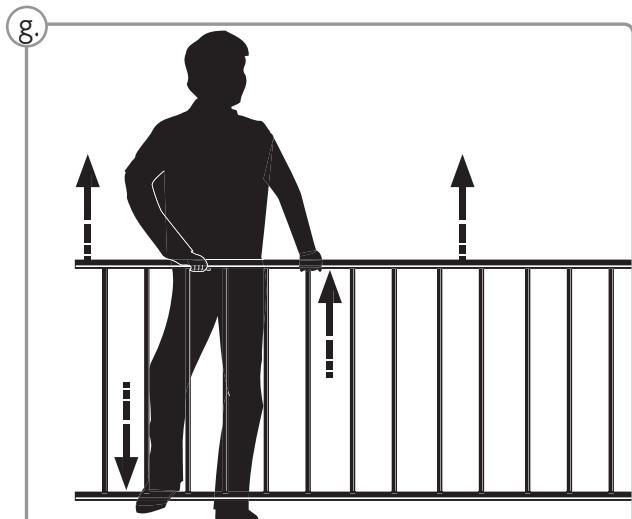
Build out rail section

- Place top and bottom rail on a smooth, flat and clean surface. Then orient the top and bottom rails so that the "ridges" inside the rails are in the same direction.
- Thread all balusters through holes in rails being careful to have the "hole" in each baluster going in the same direction, and proper direction.
- Make sure balusters threaded through rails are about 2" above rail and in-line with each other.
- Snap in bumps from plastic locking strip into holes of the balusters for both top and bottom rails. Make sure arrows on locking strips face rails.
- If the rails were cut shorter in Step 2, then there will be some "extra" locking strip at the end of install. Use scissors to cut off excess (leave approximately 2" of strip after the last engaged bump).
- Push first baluster into bottom rail, followed by the second and third, until the last baluster. Then repeat for top rail. The engagement between the rails, balusters and locking strip is about 75% at this point.



ANGLED RAIL INSTALLATION

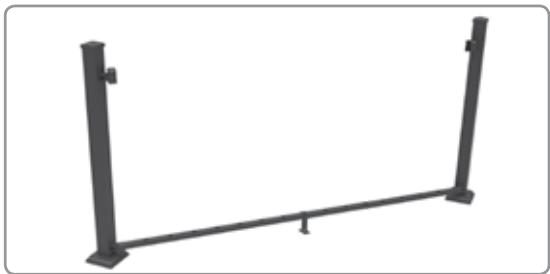
- g. Stand up rail section and fully lock the balusters into the rails. Place one foot on the top of the bottom rail, between second and third baluster while at the same time placing a hand under the bottom of the top rail between second and third baluster. Push with foot and pull with hand until locking is complete (You should hear a snap). Repeat this process for the middle and end of the panel. All the balusters should now be "locked" into the top and bottom rails. (NOTE: If a snap is not heard or felt, use a rubber mallet to tap underneath of top rail to ensure a full connection.)
- h. Line up top rail profile on top of the top rail. Press it down onto the top rail so it fits snug.
- i. Slide angle bracket on ends of both top and bottom rails.



5

Install support brace

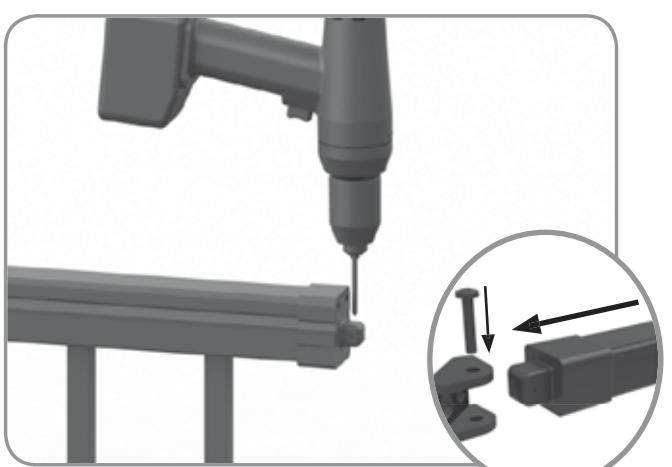
- a. Three support braces are included with 6' railing kits. For code purposes, only one is required for installations in the U.S., while all three are required in Canada. Spread out the braces proportionately (place center one in middle).
- b. Four support braces are included with 8' railing kits. For code purposes, only two are needed for installations in the U.S., while all four are required in Canada. Spread out the braces proportionately.



6

Rails to Posts

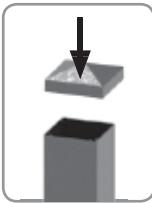
- a. Bring assembled rails between posts and line up with installed bases. While holding section with brackets in between the installed bases (From Steps 2a-c), pre-drill through the top holes on back of brackets with $\frac{9}{32}$ " drill bit, and connect brackets to bases with $\frac{1}{4}$ " sex bolts provided.
- b. Attach top brackets to top rails – Predrill two holes from under the bottom of the top rail through rail. Complete for each top rail bracket. Drive #8x $1\frac{1}{2}$ " Pan Head screws (2 per bracket) through drilled holes.
- c. Attach bottom brackets to bottom rails – Drive #8x $\frac{3}{4}$ " Pan Head screws (1 per bracket) through side of bottom rail bracket into bottom rail.



7

Finishing Up

If using a pyramid post top, push to fasten on top of posts. NOTE: A rubber mallet may be needed to ensure tight connection.



ANGLED RAIL WITH VINYL TOPPER AND POST INSTALLATION

1

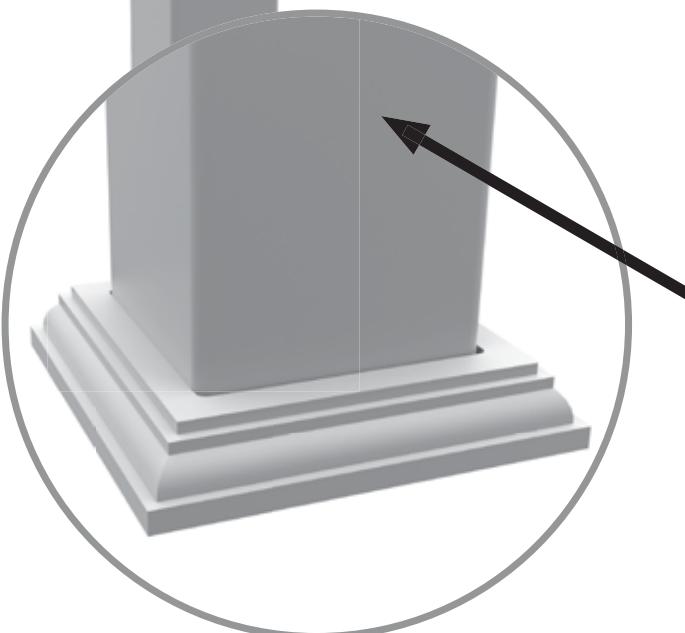
Closely follow post installation instructions for vinyl posts.

2

*Make sure base trim is installed

Install angle brackets

- With base trim installed on bottom of vinyl post, unroll paper install template and tape to post, ensuring the bottom of the template rests on the top of the base trim as specified. Predrill through marked locations on installation template "A" (not "L") into vinyl post with a $\frac{9}{64}$ " drill bit. Do this for all marked locations for both top and bottom brackets.
- Install the angle brackets at the respective heights instead of line brackets. NOTE: The base of the angled bracket installs horizontally in orientation (screws beside each other)
- Attach top and bottom bases to posts with #10 x $1\frac{1}{2}$ " flat head screws provided (2 per bracket).

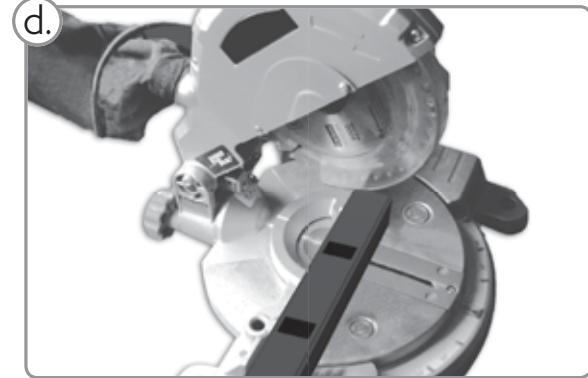
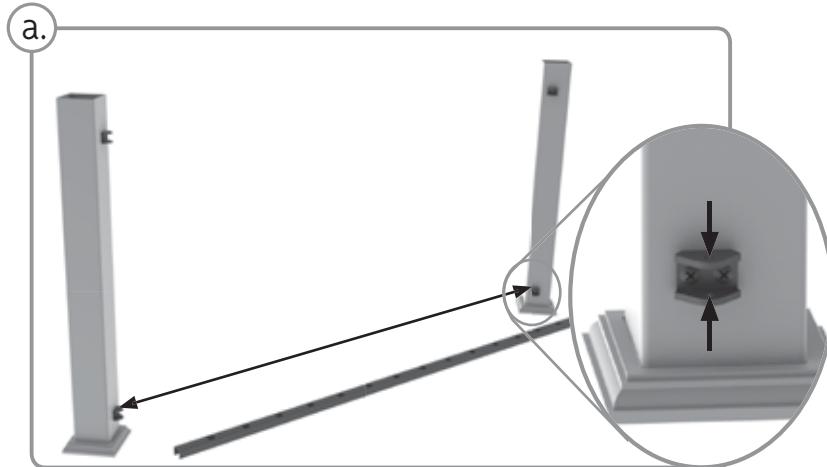


ANGLED RAIL WITH VINYL TOPPER AND POST INSTALLATION

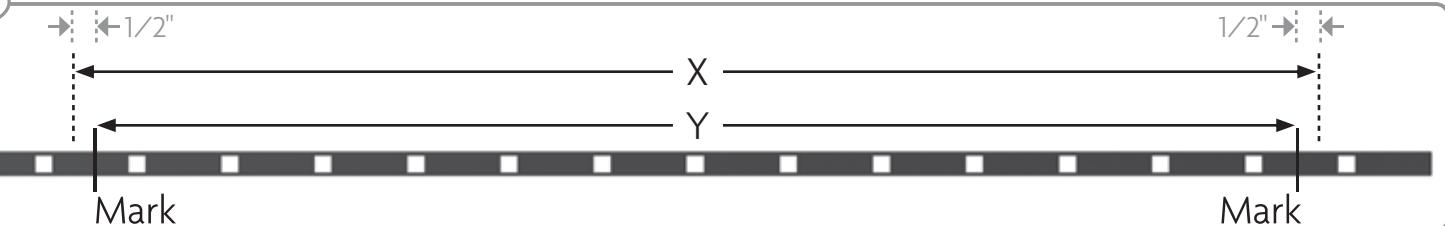
3

Cut rails to length (top rail, bottom rail, top rail profile).

- Measure the distance between bottom rail post bracket bases (from hole to hole). This will be measurement "X"
- Subtract 1" from length measured in Step 3a (X). This final measurement will be "Y"
- Mark ends of top and bottom rails the length from Step 3b ("Y") being sure that the space for the last baluster hole to the end of the rail is the same on each end.
- Cut top and bottom rails and top rail profile at the same lengths with a saw (use fine tooth carbide blade).



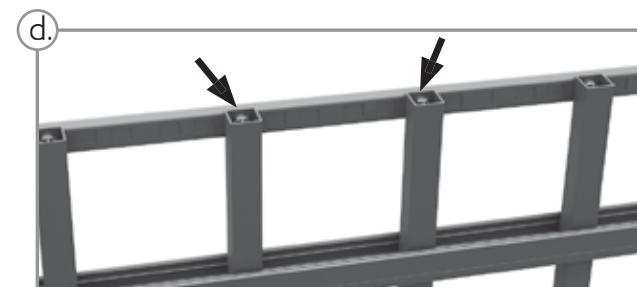
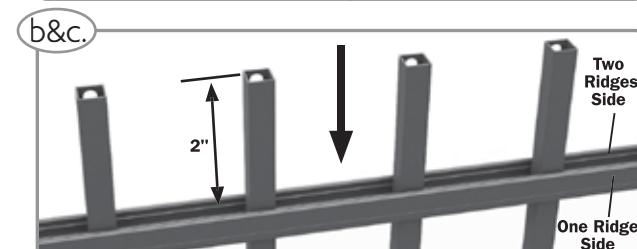
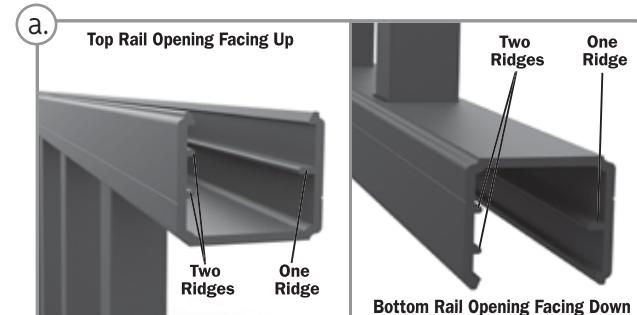
b&c.



4

Build out rail section

- Place top and bottom rail on a smooth, flat and clean surface. Then orient the top and bottom rails so that the "ridges" inside the rails are in the same direction.
- Thread all balusters through holes in rails being careful to have the "hole" in each baluster going in the same direction, and proper direction.
- Make sure balusters threaded through rails are about 2" above rail and in-line with each other.
- Snap in bumps from plastic locking strip into holes of the balusters for both top and bottom rails. Make sure arrows on locking strips face rails.
- If the rails were cut shorter in Step 2, then there will be some "extra" locking strip at the end of install. Use scissors to cut off excess (leave approximately 2" of strip after the last engaged bump).
- Push first baluster into bottom rail, followed by the second and third, until the last baluster. Then repeat for top rail. The engagement between the rails, balusters and locking strip is about 75% at this point.



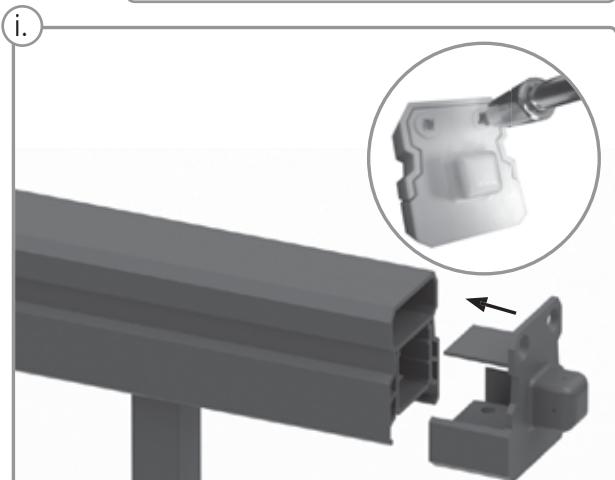
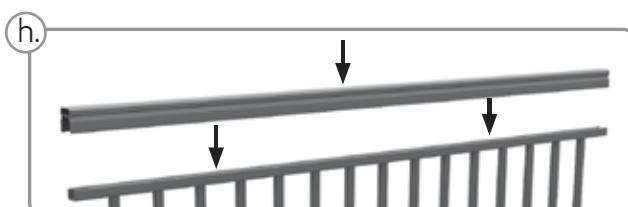
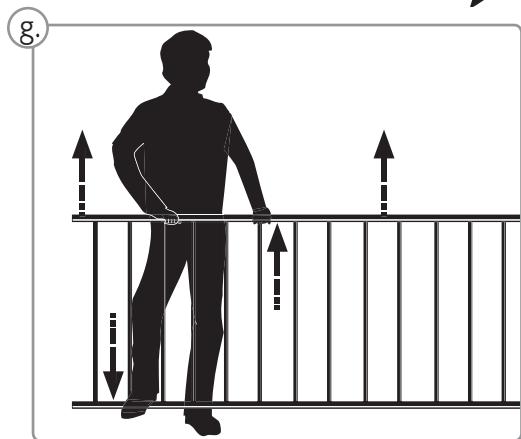
ANGLED RAIL WITH VINYL TOPPER AND POST INSTALLATION

g. Stand up rail section and fully lock the balusters into the rails. Place one foot on the top of the bottom rail, between second and third baluster while at the same time placing a hand under the bottom of the top rail between second and third baluster. Push with foot and pull with hand until locking is complete (You should hear a snap). Repeat this process for the middle and end of the panel. All the balusters should now be "locked" into the top and bottom rails. (NOTE: If a snap is not heard or felt, use a rubber mallet to tap underneath of top rail to ensure a full connection.)

h. Line up top rail profile on top of the top rail. Press it down onto the top rail so it fits snug.

NOTE: Bracket tops are not used on top of the top rail profile when a vinyl topper is installed.

i. Slide brackets onto ends of assembled rail sections, first removing the top part of the railing bracket.

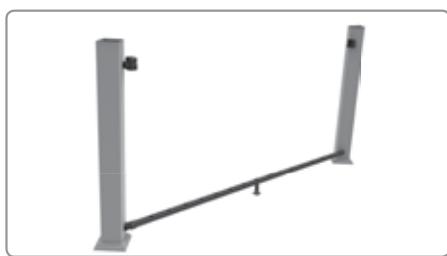


5

Install support brace

a. Two support braces are included with 6' railing kits. For code purposes, only one is required for installations in the U.S., while all three are required in Canada. Spread out the braces proportionately (place center one in middle).

b. Four support braces are included with 8' railing kits. For code purposes, only two are needed for installations in the U.S., while all four are required in Canada. Spread out the braces proportionately.



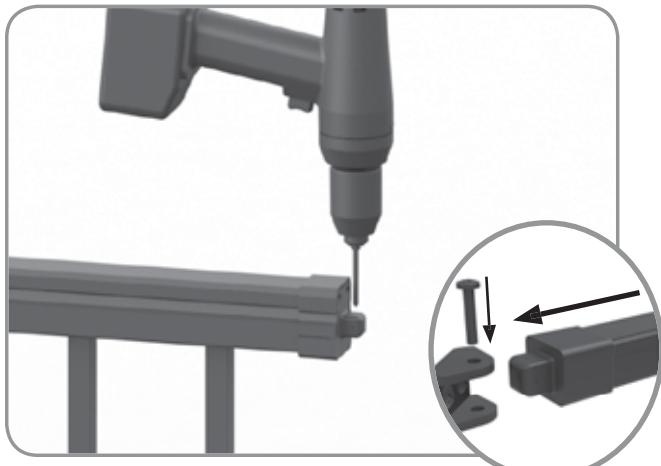
6

Rails to Posts

a. Bring assembled rails between posts and line up with installed bases. While holding section with brackets in between the installed bases (From Steps 2a-c), pre-drill through the top holes on back of brackets with $9/32$ " drill bit, and connect brackets to bases with $1/4$ " sex bolts provided.

b. Attach top brackets to top rails – Predrill two holes from under the bottom of the top rail through rail. Complete for each top rail bracket. Drive #8x $1\frac{1}{2}$ " Pan Head screws (2 per bracket) through drilled holes.

c. Attach bottom brackets to bottom rails – Drive #8x $3/4$ " Pan Head screws (1 per bracket) through side of bottom rail bracket into bottom rail.

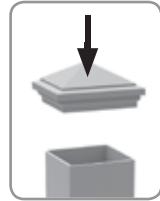
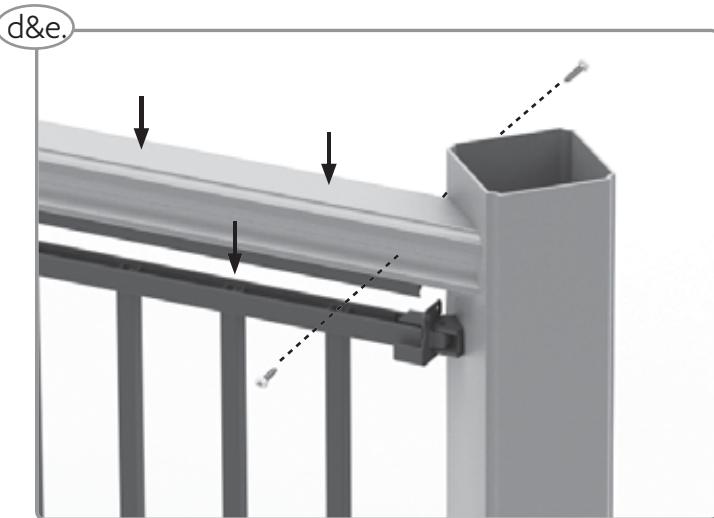


ANGLED RAIL WITH VINYL TOPPER INSTALLATION

7

Attaching angled vinyl topper to angled aluminum railing

- a. Place vinyl rail topper next to the completely installed aluminum cut rail section.
- b. At the edge of each post, trace the exact angle of the angle installation onto the Elite vinyl rail.
- c. Using a saw, cut the Elite vinyl rail to the exact line as traced in Step 7b.
- d. Attach the Elite vinyl rail to the previously installed angled aluminum section. Place the cut vinyl railing over the aluminum top rail, fitting between posts.
- e. Then, on both sides and both ends of the railing, pre-drill through the side of the vinyl railing with $1/8$ " drill bit all the way through the aluminum railing. Attach vinyl topper to the aluminum railing with $3/4$ " screws (not included).



8

Finishing Up

Secure vinyl post tops to posts.



Transferable Limited Lifetime Warranty

What is covered: Barrette Outdoor Living warrants vinyl and aluminum products to include; vinyl and aluminum fence, vinyl and aluminum railing and plastic lattice against defects or workmanship for as long as you own your home. Barrette Outdoor Living will at its option replace the product in question with new product of the same or equivalent value at no charge. Barrette Outdoor Living warrants these products against peeling, flaking, splintering, corrosion, rusting or abnormal discoloration under normal use and service per ASTMD 2244. This warranty extends to the original purchaser or transferee as specified herein on the products noted above. Separate and distinct warranties for hardware and other products are not covered under this warranty.

What this warranty does not cover: This limited warranty does not cover damage resulting from accident, unreasonable use, neglect, alteration, improper service, improper installation, acts of God or any other causes not arising out of defects in materials or workmanship. Additionally, this warranty does not cover costs of installation, removal, reinstallation or surface mold and mildew created by excessive environmental conditions. Any service or repair provided outside the scope of this limited warranty shall be at Barrette Outdoor Living's rate and terms then in effect.

What do we do to correct the problems? Should your Barrette Outdoor Living product prove defective under warranty, reference the website or call the phone number listed below. Your problem will be assigned a tracking number and an authorized Barrette Outdoor Living representative will contact you to arrange a convenient time to schedule an onsite inspection, or request pictures, if need be. If after inspection product is deemed to be manufacturer defect we will make arrangements to rectify the issue. You must have proof of your purchase in order for the problem to be corrected.

Transferee Coverage: Warranty coverage will be extended to one transferee on the above listed products with the following limitations. Transferee must obtain an original or copy of the initial sales receipt (with proof of date) from the previous owner(s). Additionally, if fence is purchased from a builder or installer, documentation must be supplied that names the product installed on property and date of transfer.

THIS WARRANTY IS IN LIEU OF ALL CONDITIONS OR WARRANTIES, EXPRESS, OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITIONS OR WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THE PART OF Barrette OR ITS LICENSORS, SOME STATES DO NOT ALLOW THE EXCLUSIONS OF IMPLIED WARRANTIES OR LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. IF THE PRODUCT IS DEFECTIVE PER THE ABOVE COVERAGES, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. BARRETTE AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES, LOSS OF USE, LOSS OF PROFITS OR INTERRUPTION OF BUSINESS WHETHER SUCH ALLEGED DAMAGES ARE BASED IN WARRANTY, TORT, CONTRACT, OR INDEMNITY. SOME STATES DO NOT ALLOW THE EXCLUSION OF LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. This warranty is valid only in the United States and Canada.

Refer to www.BarretteOutdoorLiving.com for specific details about warranty limitations.

1-800-336-2383

To register your product, please visit: www.barretteoutdoorliving.com/product-registration

© 2013 Barrette Outdoor Living • 7830 Freeway Circle • Middleburg Heights, Ohio • 44130
<http://www.barretteoutdoorliving.com> • 1-800-336-2383