

Tools and Items Needed

- Drill/power screwdriver
- Miter or circular saw with carbide tip blade
- Marked speed square
- Carpenter's level
- Carpenter's pencil
- Adjustable wrench or socket wrench for bolts, etc.
- Safety glasses/goggles
- Rubber mallet
- Tape measure

Contents

- 2 - 6' or 8' aluminum rails with baluster connectors installed
- 4 - line brackets
- 16 - #8 x 3/4" screws
- 4 - Christmas tree screws
- 15 - (satin black, matte black, or textured white) classic or estate balusters for 6' section (20 balusters for 8' rail section)

In-Line Railing Installation Instructions

Prior to construction, check with your local regulatory agency for special code requirements in your area. Common railing height is 36" or 42".

Read instructions completely to get an understanding of how the product goes together and how each piece affects the other.

Step 1 Determine the number of railing posts needed for your deck. Post spacing is 6' or 8' on-center. Example: A 12x16 deck attached to a building with a 4' access opening on one side will require a total of eight posts.

Step 2 Installing posts: Install posts by attaching the aluminum base to the surface of the deck. Position the post so the fastener will go into the floor joist, and make sure the decking is firmly attached to the joist at the location of the posts. If necessary, use wood blocking as reinforcement underneath the decking where the posts are located. Fasteners that hold the post base to the surface should be able to secure to joist or reinforcement braces, not just the decking itself. *Note: When installing aluminum post on top of a wood surface, screws must be lagged into at least 3" of solid wood. 5/4" or 1 1/2" deck boards do not provide sufficient material for a safe installation. If necessary, add additional material to the underside of the surface.*

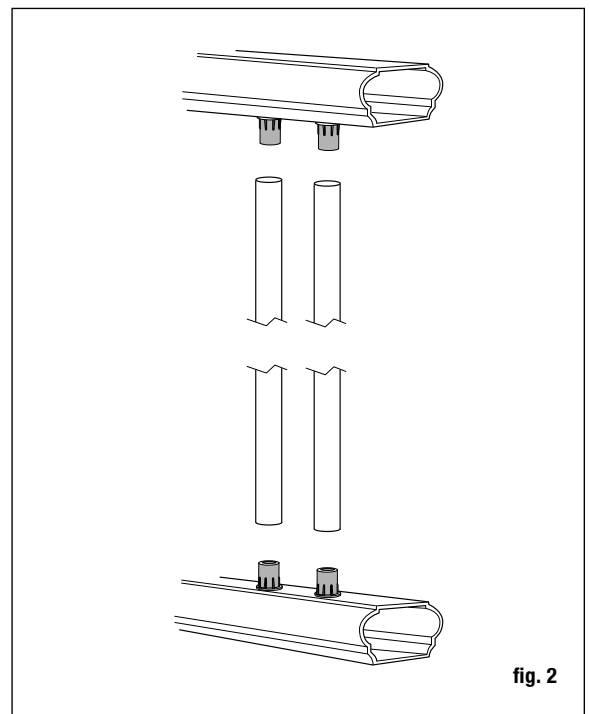
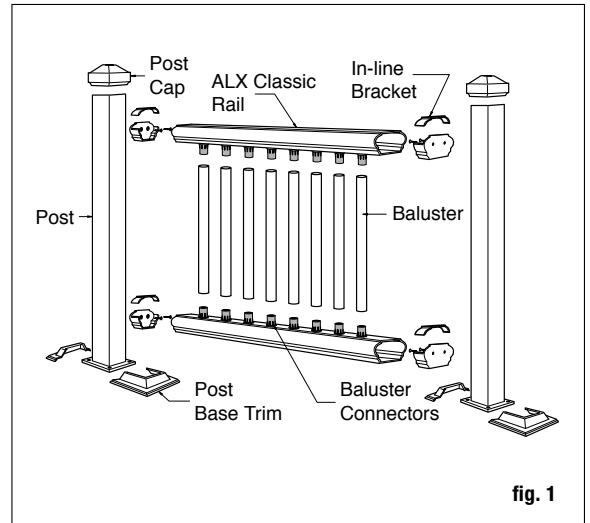
Step 3 Position the post assembly onto the location where it will be attached to the deck. Four 11/32" diameter mounting holes are provided on the base. When the final position is determined, mark the base hole locations. Remove the post assembly and drill 15/64" holes in the marked locations into the deck and reinforcement.

Step 4 Reposition the post assembly over the predrilled holes and insert the fasteners (not included). Recommended fasteners: 4 – 5/16" x 4" or longer stainless steel lag screws.

Step 5 Finish by sliding a post base trim (optional) over each post for a finished look. *Note: Installing the post base trim prior to installing the bottom rail is recommended. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed. To install, apply a thin line of clear exterior construction adhesive to the inside of the post trim where it will contact the post sleeve and snap into place around the base of the post sleeve.*

Step 6 Install baluster connectors to top and bottom rail using pre-drilled holes. Do not over tighten.

Step 7 Measure the distance between installed posts to determine the length



of the top and bottom rails (fig. 1). Lay bottom rail on deck. The distance between the post and the first baluster should be less than 4" and equal on both ends. Mark the angle and length. Repeat with the top rail. Remove an additional 1/4" on both ends (1/2" overall) for the bracket to fit between the rail and post. Trim the top and bottom rails to length.

Step 8 Position the bottom rail between posts and center. Check building code requirements for maximum spacing between deck surface and bottom of rail (sweep). Spacing of 3" is recommended, but can be more or less if codes allow. Mark the location of the bracket on both posts. Remove rail. Mark the screw locations and predrill through the posts only, using a 9/64" drill bit.

Step 9 Mark the screw location of bracket on bottom rail. Remove bracket. Predrill through the bottom of rail only using a 5/32" drill bit.

Step 10 Attach each bracket to the posts with two 3/4" screws.

Step 11 A support block is needed at the center of each 6 ft rail section, 2 support blocks are needed for 8 ft sections. Attach the support block to the support block connector on the bottom of the lower rail. Mark the location of the support block on the deck surface and attach the other support block connector to the deck using the included screw.

Step 12 Install the bottom rail between the posts by setting it in the brackets. Snap top trim piece to the rail bracket. To secure bottom rail to brackets, push 1/8" Christmas tree fasteners through bracket into the rail.

Step 13 Attach baluster to the lower rail by sliding onto connection (fig. 2).

Step 14 Position the top rail between the posts. Check for level end-to-end and vertically. Mark the bracket location on post and remove rail. Mark the screw locations using the bracket as a guide, and predrill using a 1/4" drill bit. Attach bracket to the post with two 3/4" screws at one end. Repeat for the other end.

Step 15 Lower the top rail into position, placing the balusters onto the connectors while working from one end of the railing to the other. Tap with a rubber mallet if needed to eliminate any gaps. Attach the rail to each bracket by predrilling with a number 2 drill bit and using two 3/4" screws. *Tip: Use a driver extension bit to avoid marring the rail with the drill chuck.*

Step 16 Set post caps on each post. Gently tap with rubber mallet till secure.

Stair Railing Installation Instructions

Step 1 Begin by determining where the top and bottom post will be located. Mark the desired location of the post. *Note: To ensure post location is compatible with railing, prior to securing to the deck, place both posts in position, and lay the bottom rail along the stair nosing from top to bottom adjacent to both posts. On the rail side of the post, measure up from the top of the rail and ensure there is a minimum of 34" to the top of the post. Post location may need to be adjusted to ensure minimum is obtained. Repeat this step for the bottom post.* For a wood deck, position the post so the fasteners will go into the floor joists, and make sure the decking is firmly attached to the joists at the location of the posts. If necessary, use wood blocking as reinforcement underneath the decking where the posts are located. Fasteners which hold the post base to the surface should be able to secure to joist or reinforcement braces, not just the decking itself.

Step 2 Four 11/32" diameter mounting holes are provided on the base. When final position is determined, mark hole locations and remove the post assembly. Drill the marked locations into decking and reinforcement braces.

Step 3 Reposition the post assembly over predrilled holes. Insert fasteners (not provided), then secure the base to the deck structure. Make certain the posts are plumb. If the post requires adjustment, add stainless steel washers under the base plate.

Step 4 Finish by sliding a post base trim (optional) over each post sleeve for a finished look. *Note: Installing the post base trim prior to installing the bottom rail is*

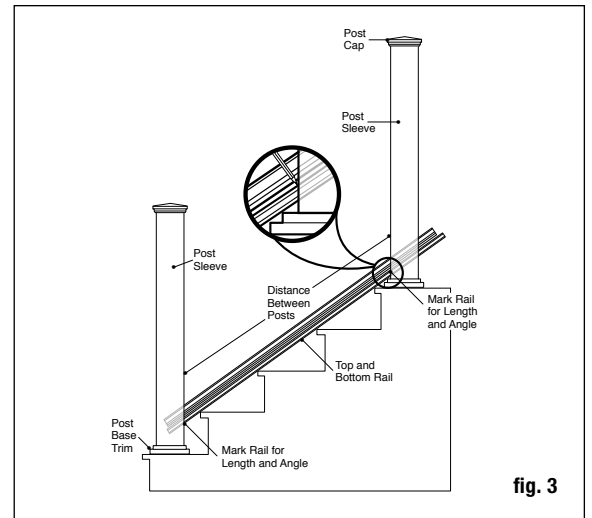


fig. 3

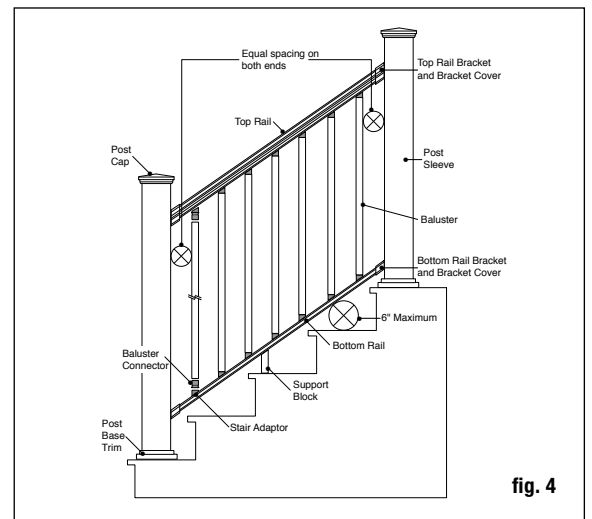


fig. 4

recommended. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed. To install, apply a thin line of clear exterior construction adhesive to the inside of the post trim where it will contact the post sleeve and snap into place around the base of the post sleeve.

Step 5 Measure the distance between installed posts to determine the length of the top and bottom rails. Lay bottom rail on stairs with the predrilled holes facing down. The distance between the post and the first baluster should be less than 4" and equal on both ends. Mark the angle and length. Do the same with the top rail. Remove an additional 1/4" on both ends (1/2" overall) for the bracket to fit between the rail and post. Trim the top and bottom rails to length with the same angle (fig. 3).

Step 6 Determine the spacing of the balusters, 4-1/2" maximum on-center, and equal spacing for the end spacing. The rails are predrilled with the proper spacing. Use a number 2 drill bit to open up the predrilled holes to the angle of the stairs. The top and bottom connectors will be facing opposite directions. Attach baluster connectors to rails. Do not over-tighten screws. Apply silicone caulk on each connector to prevent balusters from turning or rattling after installation is complete. The caulk should be on the outside of the round connector and on the inside of the baluster connectors.

Step 7 Position the bottom rail between posts and center. Check building code requirements for maximum spacing on a staircase, typically less than 6". A 6" ball cannot pass through the triangle formed by the bottom rail, tread and riser (fig. 4). Mark the location of the bracket on both posts. Remove rail. Mark the screw locations and predrill through the post only using a number 2 drill bit.

Step 8 Mark location of bracket on bottom rails. Remove bracket. Predrill through the rail only, using a 5/32" drill bit.

Step 9 Attach each bracket to the post with two 1-3/4" screws.

Step 10 A support block is needed at the center of each rail. Attach support block connector to the bottom of the lower rail by finding the center of the rail and predrill using a number 2 drill bit. Attach the support block connector using the included screw. Mark the location of the support block on the step tread and attach the other support block connector to the step tread using the included screw.

Step 11 Install the bottom rail between the posts by setting rail in brackets. Snap top trim piece to the rail bracket. To secure bottom rail to brackets, predrill with a number 2 drill bit and secure using two 3/4" screws. *Tip: Use a driver extension bit to avoid marring the rail or post with the drill chuck.*

Step 12 Attach balusters to the lower rail by sliding onto the connectors.

Step 13 Position the top rail between the posts. Check for plumb end-to-end and vertically. Mark the bracket location on post and remove rail. Mark the screw locations using the bracket as a guide, and predrill using a number 2 drill bit. Attach a bracket to the post with two 1-3/4" screws at one end. Repeat for the other end. Lower the top rail into position, placing the balusters onto the stair connectors while working from one end of the railing to the other. Tap with a rubber mallet if needed to eliminate any gaps. Attach the rail to each bracket by predrilling with a number 2 drill bit and using two 3/4" screws. *Tip: Use a driver extension bit to avoid marring the rail or post with the drill chuck.*

Step 14 Set post caps on each post. Gently tap with rubber mallet to secure.

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Outils et articles nécessaires

- Tournevis électrique/ perceuse
- Niveau de menuisier
- Maillet de caoutchouc
- Scie circulaire ou à onglets avec lame à pointe au carbure
- Crayon de menuisier
- Ruban à mesurer
- Équerre marquée
- Clé ajustable ou clé à douille pour les boulons, etc.
- Lunettes de sécurité

Contents

- 2** - Traverses en aluminium de 6 pi ou 8 pi avec raccords de balustres installés
- 4** - Supports en ligne
- 16** - Vis n°8 x 3/4 po
- 4** - Vis d'arbre de Noël
- 15** - (noir satin, noir mat ou blanc texturé) balustres classique ou balustres domaine pour section de 1,8 m (6 pi) (20 balustres pour section de 2,4 m (8 pi) de traverse)

Instructions d'installation pour le garde-corps droit

Avant la construction, consultez l'agence réglementaire locale pour toutes exigences spéciales du code dans votre région. La hauteur courante du garde-corps est de 36 po ou 42 po.

Lire toutes les instructions pour bien comprendre comment assembler le produit et voir comment chaque pièce affecte les autres.

Étape 1 Déterminez le nombre de poteaux de garde-corps nécessaires pour votre terrasse. Leur espacement devrait être de 1,8 ou 2,4 m (6 ou 8 pi) centre à centre. Exemple : Une terrasse de 12x16 attachée à un édifice avec une ouverture d'accès de 4 pi d'un côté exigera en tout huit poteaux.

Étape 2 Installez les manchons de poteau : Installez les poteaux en attachant la base en aluminium à la surface de la terrasse. Placez le poteau afin que l'attache entre dans la solive du sol, et vérifiez que la terrasse est fermement attachée à la solive à l'emplacement des poteaux. Au besoin, utilisez des blocs de bois comme renforcement en dessous de la terrasse à l'emplacement des poteaux. Les attaches qui maintiennent la base du poteau à la surface devraient être en mesure de fixer la solive ou les entretoises de renforcement, en plus de fixer la terrasse. *Remarque : Lors de l'installation du poteau en aluminium en haut d'une surface en bois, les vis doivent être insérées à une profondeur d'au moins 3 po du bois solide. Les planches de terrasse de 5/4 po ou 1 1/2 po ne fournissent pas de matériel suffisant pour une installation sécuritaire. Au besoin, ajoutez du matériel supplémentaire sous la surface.*

Étape 3 Placez le poteau à l'endroit où il sera attaché à la terrasse. Quatre trous de montage d'un diamètre de 11/32 po sont fournis sur la base. Lorsque l'emplacement final a été déterminé, marquez les emplacements. Enlevez le poteau et percez des trous de 15/64 po aux emplacements marqués dans la terrasse et le renforcement.

Étape 4 Remplacez le poteau au-dessus des trous pré-perçés et insérez les attaches (non incluses). Attaches recommandées : 4 – vis tire-fond en acier inoxydable de 5/16 po x 4 po ou plus longues.

Étape 5 Finissez en glissant une garniture de base de poteau (facultative) sur chaque manchon de poteau pour offrir un beau fini. *Remarque : Il est recommandé d'installer la garniture de base de poteau avant la traverse inférieure. Cependant, la conception à deux pièces permet à l'installateur*

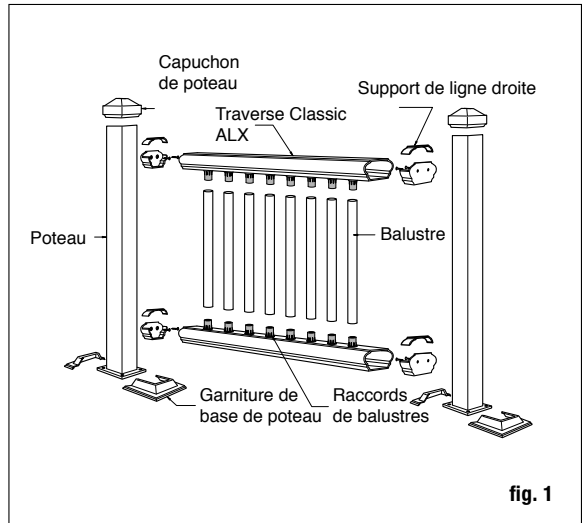


fig. 1

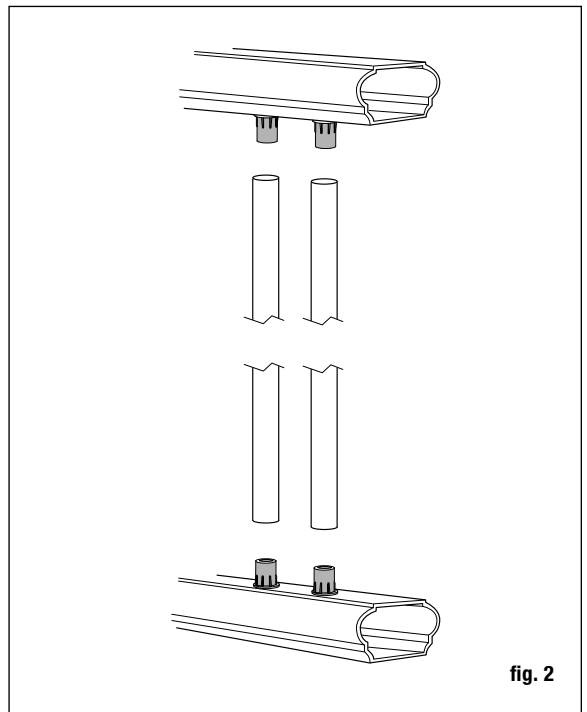


fig. 2