GO BEYOND ORDINARY.

Deckorators takes the enjoyment of personalizing your outdoor living space to a whole new level. With decking and railing products that excite and inspire, you can accessorize and enhance the world outside your four walls with the newest, on-trend styles from the brand always leading design innovation. Deckorators offers the quality and selection to transform decks into a reflection of each homeowner. The first name in outdoor decorating, we’ve staked our reputation on your satisfaction.

In fact, we’re so confident, we stand firmly behind that reputation with some of the best, first-of-their-kind product warranties in the industry.

DECKORATORS CERTIFIED PRO PROGRAM

Our 2020 Deckorators Certified Pro program is designed to help your business by aligning you with the leader in decking, railing, post caps, and accessories. Certified Pros receive:

- Preferred contractor listing on Deckorators.com
- Access to the Deckorators Pro-Only site
- Sample kits
- Special promotions
- Hands-on training by a Deckorators representative
- Deckorators Rewards Program

Our new rewards program allows you to earn points for every Deckorators purchase you make. Use points to purchase Deckorators products, marketing materials, apparel or cash.
### HOW TO BUY: ALX CONTEMPORARY PREASSEMBLED RAILING

#### STEP 1 - CHOOSE YOUR RAILING
**ALX CONTEMPORARY PREASSEMBLED RAIL** - PURCHASE (1) KIT PER 6' OR 8' ON-CENTER IN-LINE RAIL SECTION. HARDWARE INCLUDED.

<table>
<thead>
<tr>
<th>Length</th>
<th>Rail Description</th>
<th>Available Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'</td>
<td>On-Center Rectangle ALX Contemporary Preassembled Rail (36&quot; or 42&quot;)</td>
<td>Textured Black, Textured White, Weathered Brown, Textured Bronze and Brushed Titanium</td>
</tr>
<tr>
<td>8'</td>
<td>On-Center Rectangle ALX Contemporary Preassembled Rail (36&quot; or 42&quot;)</td>
<td>Textured Black, Textured White, Weathered Brown, Textured Bronze and Brushed Titanium</td>
</tr>
</tbody>
</table>

*Sized for on-center lengths when installed with 2.5" posts*

#### STEP 2 - CHOOSE YOUR POSTS
**2.5" x 2.5" ALUMINUM POST KITS** - PURCHASE (1) POST KIT PER RAILING, PLUS (1) TO END EACH RUN. TRIM AND POST CAP INCLUDED.

<table>
<thead>
<tr>
<th>Rail Length</th>
<th>Post Kit with Leveling Plate</th>
<th>Available Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>36&quot;</td>
<td>39&quot; Aluminum</td>
<td>Textured Black, Textured White, Weathered Brown, Textured Bronze and Brushed Titanium</td>
</tr>
<tr>
<td>42&quot;</td>
<td>44&quot; Aluminum</td>
<td>Textured Black, Textured White, Weathered Brown, Textured Bronze and Brushed Titanium</td>
</tr>
</tbody>
</table>

#### STEP 3 - CHOOSE YOUR STAIR RAILING
**ALX CONTEMPORARY PREASSEMBLED RAIL** - PURCHASE (1) KIT PER 6' OR 8' STAIR RAIL SECTION. HARDWARE INCLUDED.

<table>
<thead>
<tr>
<th>Length</th>
<th>Rail Description</th>
<th>Available Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'</td>
<td>Rectangle ALX Contemporary Preassembled Stair Rail (36&quot; or 42&quot;)</td>
<td>Textured Black, Textured White, Weathered Brown, Textured Bronze and Brushed Titanium</td>
</tr>
<tr>
<td>8'</td>
<td>Rectangle ALX Contemporary Preassembled Stair Rail (36&quot; or 42&quot;)</td>
<td>Textured Black, Textured White, Weathered Brown, Textured Bronze and Brushed Titanium</td>
</tr>
</tbody>
</table>

#### STEP 4 - CHOOSE YOUR STAIR POSTS
**2.5" x 2.5" ALUMINUM POST KITS** - PURCHASE (1) POST KIT PER STAIR RAILING, PLUS (1) TO END EACH RUN. TRIM AND POST CAP INCLUDED.

<table>
<thead>
<tr>
<th>Rail Length</th>
<th>Post Kit with Leveling Plate</th>
<th>Available Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>36&quot;</td>
<td>49&quot; Aluminum</td>
<td>Textured Black, Textured White, Weathered Brown, Textured Bronze and Brushed Titanium</td>
</tr>
<tr>
<td>42&quot;</td>
<td>54&quot; Aluminum</td>
<td>Textured Black, Textured White, Weathered Brown, Textured Bronze and Brushed Titanium</td>
</tr>
</tbody>
</table>

#### STEP 5 - CHOOSE YOUR POST CAPS
**2.5" LUNA LOW VOLTAGE POST CAPS**

<table>
<thead>
<tr>
<th>Cap Type</th>
<th>Available Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5&quot; Luna Low</td>
<td>Matte Black, Textured White and Weathered Brown</td>
</tr>
<tr>
<td>2.5&quot; Solar Post</td>
<td>Black, White, Weathered Brown</td>
</tr>
<tr>
<td>2.5&quot; Nouveau Solar</td>
<td>Black and White</td>
</tr>
</tbody>
</table>

**NOTE:** STEP 3 AND STEP 4 NOT SHOWN ON DIAGRAM

---

**HOW TO BUY • ALX CONTEMPORARY PREASSEMBLED RAILING 3**
HOW TO BUY: ALX CONTEMPORARY CABLE

STEP 1 - CHOOSE YOUR RAILING
ALX CONTEMPORARY CABLE RAIL - PURCHASE (1) KIT PER 6' OR 8' ON-CENTER IN-LINE RAIL SECTION. HARDWARE INCLUDED.

- 6' On-Center* Rectangle ALX Contemporary Top Rail (36" or 42")
- 8' On-Center* Rectangle ALX Contemporary Top Rail (36" or 42")

* Sized for on-center lengths when installed with 2.5" posts

STEP 2 - CHOOSE YOUR POSTS
2.5" x 2.5" CABLE POST KITS - PURCHASE (1) LINE POST KIT FOR IN BETWEEN TWO RAILING SECTIONS, PLUS (1) END POST TO END EACH CABLE RUN. TRIM AND POST CAP INCLUDED.

- 36" Cable Line Post Kit with Leveling Plate (for 36" rail), 10 pre-drilled holes
- 42" Cable Line Post Kit with Leveling Plate (for 36" rail), 10 pre-drilled holes
- 36" Cable End Post Kit with Leveling Plate (for 42" rail), 12 pre-drilled holes
- 42" Cable End Post Kit with Leveling Plate (for 42" rail), 12 pre-drilled holes

Steps 3 and 4 not shown on diagram

STEP 3 - CHOOSE YOUR STAIR RAILING
ALX CONTEMPORARY CABLE RAIL - PURCHASE (1) KIT PER 6' STAIR RAIL SECTION. HARDWARE INCLUDED.

- 6' Rectangle ALX Contemporary Cable Stair Rail
- 8' Rectangle ALX Contemporary Cable Stair Rail

* 46" stair spacers included for 36" and 42" stair heights. Trim to fit.

STEP 4 - CHOOSE YOUR STAIR POSTS
2.5" x 2.5" ALUMINUM POST KITS - PURCHASE (1) MIDDLE STAIR POST KIT FOR IN BETWEEN TWO STAIR RAILING SECTIONS, PLUS (1) BOTTOM STAIR POST TO END THE CABLE RUN AT THE BOTTOM. TRIM AND POST CAP INCLUDED.

- 36" Cable Stair Middle Post Kit with Leveling Plate (for 36" stair rail), 10 pre-drilled slots
- 42" Cable Stair Middle Post Kit with Leveling Plate (for 42" stair rail), 12 pre-drilled slots
- 36" Cable Stair Bottom Post Kit with Leveling Plate (for 36" stair rail), 10 pre-drilled holes
- 42" Cable Stair Bottom Post Kit with Leveling Plate (for 42" stair rail), 12 pre-drilled holes

STEP 5 - CHOOSE YOUR CABLE
CABLE IS AVAILABLE IN INDIVIDUAL PRE-CUT LENGTHS. PURCHASE (10) FOR EACH 36" RAILING RUN AND (12) FOR EACH 42" RAILING RUN. MULTIPLE LENGTHS MAY BE REQUIRED BASED ON THE DECK LAYOUT. TRIM TO FIT.

- 1/8" 316 Stainless Cable with pre-attached threaded stud and pull-lock fitting, in 5', 10', 15', 20', 25', 30', 40' and 50' lengths

STEP 6 - CHOOSE YOUR POST CAPS

- 2.5" Luna Low voltage post caps
- 2.5" Solar Post Cap
- 2.5" Nouveau Solar Post Cap

Available colors: Matte Black, Textured White and Weathered Brown

Available colors: Black, White, Weathered Brown

Available colors: Black and White
**HOW TO BUY: ALX PRO WITH FACE MOUNT BALUSTERS**

**STEP 1 - CHOOSE YOUR RAILING**

<table>
<thead>
<tr>
<th>ALX PRO RAIL KITS – PURCHASE (1) RAIL KIT PER 6' OR 8' SECTION.*</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6' Rail kit with brackets</td>
<td>Available colors: Black and White</td>
</tr>
<tr>
<td>8' Rail kit with brackets</td>
<td></td>
</tr>
</tbody>
</table>

* To create stair rails, you will need to purchase (2) stair bracket kits per stair rail.

<table>
<thead>
<tr>
<th>CAP RAIL KITS (OPTIONAL) – PURCHASE (1) CAP RAIL KIT PER 6' OR 8' RAIL SECTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6' Cap rail kit with insert rail</td>
<td></td>
</tr>
<tr>
<td>8' Cap rail kit with insert rail</td>
<td>Available colors: Black and White</td>
</tr>
</tbody>
</table>

**STEP 2 - CHOOSE YOUR BALUSTERS (FACE MOUNT)**

<table>
<thead>
<tr>
<th>ARCHITECTURAL ALUMINUM BALUSTERS – PURCHASE (3) 5-PACKS PER 6' RAIL OR (4) 5-PACKS PER 8' RAIL.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>32-1/4&quot; Baroque (for 36&quot; line rail) – 5-pack (screws included)</td>
<td>Available colors: Black, White and Bronze</td>
</tr>
<tr>
<td>40&quot; Baroque (for 42&quot; line rail) – 5-pack (screws included)</td>
<td></td>
</tr>
<tr>
<td>32-1/4&quot; Arc (for 36&quot; line rail) – 5-pack (screws included)</td>
<td>Available colors: Black and Bronze</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TRADITIONAL ALUMINUM BALUSTERS – PURCHASE (1.5) 10-PACKS PER 6' RAIL OR (2) 10-PACKS PER 8' RAIL.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>32&quot; Traditional (for 36&quot; line rail) – 10-pack (screws included)</td>
<td>Available colors: Black and Bronze</td>
</tr>
<tr>
<td>40&quot; Traditional (for 42&quot; line rail) – 10-pack (screws included)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GLASS BALUSTERS – PURCHASE 9 BALUSTERS PER 6' SECTION AND 12 PER 8' SECTION.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>32&quot; Clear Scenic Glass (for 36&quot; rail) – 5-pk (screws included)</td>
<td></td>
</tr>
</tbody>
</table>

**STEP 3 - SELECT YOUR POST SLEEVES AND POST BASE TRIM**

<table>
<thead>
<tr>
<th>4x4 POST SLEEVE AND TRIM – PURCHASE (1) POST SLEEVE PER RAILING KIT PLUS (1) TO END EACH RUN. TRIM OPTIONAL.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>40-1/4&quot; Post sleeve (for 36&quot; rail)</td>
<td></td>
</tr>
<tr>
<td>52&quot; Post sleeve (for 42&quot; rail)</td>
<td>Available colors: Black and White</td>
</tr>
<tr>
<td>4x4 Post base trim</td>
<td></td>
</tr>
</tbody>
</table>

**STEP 4 - CHOOSE YOUR POST CAPS**

| Aluminum base post caps – Purchase (1) post cap per post sleeve. |  |
**STEP 1 - CHOOSE YOUR RAILING**

ALX PRO RAIL KITS – PURCHASE (1) RAIL KIT PER 6' OR 8' SECTION.

- 6' Rail kit with brackets
- 8' Rail kit with brackets

Available colors: Black and White

CAP RAIL KITS (OPTIONAL) – PURCHASE (1) CAP RAIL KIT PER 6' OR 8' RAIL SECTION.

- 6' Cap rail kit with insert rail
- 8' Cap rail kit with insert rail

Available colors: Black and White

**STEP 2 - CHOOSE YOUR BALUSTERS (CENTER MOUNT)**

ALUMINUM BALUSTERS – PURCHASE (1.5) 10-PACKS PER 6' RAIL OR (2) 10-PACKS PER 8' RAIL.

- 26" Classic (for 36" line rail) – 10-pack
- 32" Classic (for 42" line rail) – 10-pack
- 36" Classic (for 46" line rail) – 10-pack
- 26" Estate (for 36" line rail) – 10-pack
- 32" Estate (for 42" line rail) – 10-pack

Available colors: Black, Matte Black, Bronze, White, Textured White and Weathered Brown

GLASS BALUSTERS – PURCHASE 9 BALUSTERS PER 6' SECTION AND 12 PER 8' SECTION.

- 26" Clear Scenic Glass (for 36") – 5-pack
- 32" Clear Scenic Glass (for 42") – 5-pack (screws included)

**STEP 3 - SELECT YOUR CORRESPONDING BALUSTER CONNECTORS**

ALUMINUM BALUSTER CONNECTORS – PURCHASE (1) 20-PACK PER (1) BALUSTER PACK. ADD STAIR ADAPTORS AS NEEDED.

- Baluster Connectors – 20-pack (use with Classic Balusters)
- Stair Connectors – 20-pack (use with Classic Balusters)
- Designer Baluster Connectors – 20-pack (use with Classic Balusters)
- Designer Baluster Stair Adaptors – 20-pack (use with Classic Balusters)
- Standard Estate Baluster Connectors – 20-pack (use with Estate Balusters)
- Standard Estate Stair Connectors – 20-pack (use with Estate Balusters)
- Designer Baluster Connectors – 20-pack (use with Classic Balusters)
- Standard Estate Baluster Connectors – 20-pack (use with Estate Balusters)

Available colors: Black and White

GLASS BALUSTERS CONNECTORS – PURCHASE (1) CONNECTOR KIT PER (1) SCENIC BALUSTER.

- Frontier Scenic Connectors – 2-pack
- Scenic Stair Connectors – 2-pack

Available colors: Black, Cedar, Gray and White

**STEP 4 - SELECT YOUR POST SLEEVES AND POST BASE TRIM**

4x4 POST SLEEVE AND TRIM – PURCHASE (1) POST SLEEVE PER RAILING KIT PLUS (1) TO END EACH RUN. TRIM OPTIONAL.

- 40-1/4" Post sleeve (for 36" rail)
- 52" Post sleeve (for 42" rail)
- 4x4 Post base trim

Available colors: Black and White

**STEP 5 - CHOOSE YOUR POST CAPS**

Aluminum base post caps – Purchase (1) post cap per post sleeve.
### HOW TO BUY: CABLE RAILING

<table>
<thead>
<tr>
<th>STEP 1 - CHOOSE YOUR RAILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>(BOTTOM RAILING OPTIONAL)</td>
</tr>
<tr>
<td>Works with ALX Pro railing or wood posts/rail.</td>
</tr>
<tr>
<td>Cable can extend up to 30' and turn one corner.</td>
</tr>
<tr>
<td>Hardware packs include: 2 Eye lags, 1 fork jaw and 1 turnbuckle.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STEP 2 - HARDWARE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchase 10 packs for a 36&quot; rail height or 12 packs for a 42&quot; rail height, required for each start or stop of a run/post.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STEP 3 - CABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available in 100' and 500' lengths.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STEP 4 - SUPPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>One spacer required for a 6' section, two spacers required for an 8' section.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STEP 5 - POST PROTECTORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post protectors are required for turning 45-degree corners – sold in packs of 10.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STEP 6 - ADD YOUR ALX PRO POST SLEEVE KITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(if applicable)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STEP 7 - CHOOSE YOUR POST CAPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchase (1) post cap per post sleeve.</td>
</tr>
</tbody>
</table>
### How to Buy: ALX Classic

#### Step 1 - Choose Your ALX Classic Complete Rail Kit
- **Top & Bottom Rail with Connectors Installed, Balusters and Brackets Included**
  - 6’ On Center Rail Kit - Classic (Round) Balusters for 36” or 42” Rail Height
  - 6’ On Center Rail Kit - Estate (Square) Balusters for 36” or 42” Rail Height
  - 8’ On Center Rail Kit - Classic (Round) Balusters for 36” or 42” Rail Height
  - 8’ On Center Rail Kit - Classic (Round) Balusters for 36” or 42” Rail Height

**Available colors:** Satin Black, Matte Black, Textured White, Weathered Brown

#### Step 2 - Choose Your Aluminum Post Kits (2.5” x 2.5” ALX Classic Post Kits)
- Purchase (1) Post Kit per Railing Kit plus (1) to end each run. Trim and Post Cap Included.
  - 39” Post Kit (with leveling plate) for 36” Rail Height
  - 44” Post Kit (with leveling plate) for 42” Rail Height

**Available colors:** Satin Black, Matte Black, Textured White, Weathered Brown

#### Step 3 - Choose Your ALX Classic Complete Stair Rail Kit
- Each Kit includes (2) Aluminum Rails with Baluster Connectors Installed, (1) Stair Hardware Kit that includes (4) Metal Stair Brackets (8) #8 x 3/4” & (8) #8 x 1-3/4” Screws, (12) Balusters for 6’ for 35 Degree Stair Installations
  - 6’ Stair Rail Kit - Classic (Round) Balusters for 36” or 42” Rail Height
  - 6’ Stair Rail Kit - Estate (Square) Balusters for 36” or 42” Rail Height
  - 8’ Stair Rail Kit - Classic (Round) Balusters for 36” or 42” Rail Height
  - 8’ Stair Rail Kit - Estate (Square) Balusters for 36” or 42” Rail Height

**Available colors:** Satin Black, Matte Black, Textured White, Weathered Brown

#### Step 4 - Choose Your Stair Post Kits
- 2.5” x 2.5” Aluminum Post Kits - Purchase (1) Post Kit per Stair Railing, plus (1) to end each run. Trim and Post Cap Included.
  - 49” Aluminum Post Kit with Leveling Plate (for 36” stair rail)
  - 54” Aluminum Post Kit with Leveling Plate (for 42” stair rail)

**Available colors:** Satin Black, Matte Black, Textured White, Weathered Brown

#### Step 5 - Choose Your Optional, Alternative Post Caps
- Aluminum Base Post Caps - Purchase (1) Optional, Alternative Post Cap per Post if desired.
  - 2.5” Luna Low Voltage Post Caps
  - 2.5” Solar Post Cap
  - 2.5” Nouveau Solar Post Cap

**Available colors:** Matte Black, Textured White and Weathered Brown, Satin Black, White, Weathered Brown, Black and White

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For more information visit Deckorators.com

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Items you will need

- Safety glasses
- Pencil or pen
- Tape measure
- Utility knife
- Jigsaw
- Carpenter square (speed square)
- Power screw gun or drill
- Soft mallet
- Portable power saw
- Fine-tooth saw blades (40-tooth minimum, sharp carbide-tipped wood or finish/trim blades)
- Large file or medium-grit sandpaper
- Chalk line
- Spacing tools
- Fastener-specific tools recommended by manufacturer

Each Deckorators® Voyage™ and Vault board has a unique appearance and should be arranged according to the end user’s preference. Prior to construction, check with your local regulatory agency’s code requirements. For best results, follow all installation instructions, paying close attention to gapping, spacing and fastener requirements.

### Joist spacing requirements

<table>
<thead>
<tr>
<th>Installation Style</th>
<th>Standard</th>
<th>Picture Frame</th>
<th>Diagonal (45°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td>16&quot;</td>
<td>16&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Commercial</td>
<td>12&quot;</td>
<td>12&quot;</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>

Note: All dimensions are on-center.

Note: Joist spacing, stair stringer spacing and fastener requirements remain the same for all Mineral-Based Composite deck board widths (3.5", 5.5", 7.25”).

### Gapping requirements

<table>
<thead>
<tr>
<th>Installation Temperature</th>
<th>Above 32°F (0°C)</th>
<th>Below 32°F (0°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side-to-Side</td>
<td>1/8&quot;</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>End-to-End</td>
<td>1/16&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>End-to-Side</td>
<td>1/16&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>Abutting Solid Objects</td>
<td>1/8&quot;</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>

Note: Always follow best workmanship practices. Including, and not limited to, square cutting both board ends prior to installation.
**Cutting**

- 10" 40T, 80T circular blade
- 12" 40T, 72T, 80T circular blade

- Upcut with a clean/smooth saw blade.
- Cut deck boards with the leading edge of the saw blade, cutting into the exposed face. Use a sharp utility knife or jigsaw to finish cuts where a circular saw cannot fully complete cut.
- Use a jigsaw to cut openings for protrusions.
- If necessary, use a large file or medium-grit sandpaper to clean cut edges.
- Use utility knife to cut any fibers or strands. *(In the rare event that a strand or fiber protrudes from the board, do not pull it.)*

**Fastener requirements**

- Corrosion-resistant, galvanized or stainless steel fasteners
- Reverse-thread composite screw
- Minimum of 2-1/2" long screws
- 1-1/4" minimum penetration into joist

- Set power driver such that screws are slightly counter sunk. Do not overdrive.
- If using a hidden fastener system, use the manufacturer’s recommended fastener and follow the manufacturer’s instructions.

**Installation**

- Two fasteners per joist minimum.
- Ends of each board must fall on a joist.
- Double joist or use blocking where two board ends meet.
- 1" maximum cantilever.
- Install entire deck at same temperature.
- Install the deck boards starting from the outside edge of the platform and work toward anchor wall so that ripped pieces abut the wall. Start installing from one end of the board and work toward the other end of the board.
- **OR:** Start installing from the center of the board and work out toward the ends of the board. Do not install by fastening each end first and working toward the middle.
- Continue installing deck boards, adhering to the gapping requirements. Ensure consistent appearance by aligning each plank so that the cathedrals of the emboss pattern point in the same direction.

**Face screw installation**

- Use reverse-threaded composite deck screws.
- Screws should be 3/8" to 1" from side of board, 3/8" to 1" from end of board.
- Use color-matched screws for best results.
- Use caution not to overdrive screw.

**Hidden fastener installation**

- Please refer to the compatible fastener information on Deckorators.com/FastenerInfo.
- Fastener slots may be routed into the side of the deck boards, as needed.
- Follow hidden fastener manufacturer’s instructions.

*NOTE: Cutting all ends of boards prior to installation recommended.*
Stair installation

- Stairs must be constructed according to national and local building codes. Generally, building codes require 3'-minimum wide treads and 11'-minimum tread depth.
- 9'-maximum center-to-center spacing of stringers is required.
- Stair treads should be fastened over a minimum of 5 stringers to meet code requirements.
- 1/2”-maximum tread overhang over stringers.
- 1/8”-minimum gap between stair-tread boards. Local building codes may require the gap to be increased to 1/4” - 3/8” in order to maintain the minimum tread depth.

Color variation

Like most composites, Deckorators Decking will have color variations from piece to piece. This is due to naturally occurring variations in polymers. Purchasing all required decking material at one time is recommended, as manufacturing runs can produce slightly different colors. Do not install if color variation is not acceptable.

Mold and mildew growth

Mold and mildew can be a nuisance on any exterior building surface, regardless of the material. If the conditions are right, they will grow on wood, plastic, concrete, metal and other surfaces. Mold formation is most prevalent in consistently wet, shaded areas. Spores from the natural environment are carried by the wind and commonly land on decks surfaces. It is important to note that the appearance of mold/mildew is a function of nature, not necessarily a deficiency with any of the material on which it grows.

Cleaning

Periodic washing with soap/mild detergent and water will help remove surface dirt. This will also help prevent the buildup of pollen, debris and spores that can cause and accelerate mold/mildew growth.

Caution: A pressure washer should not be used to “blast” mold/mildew or soils from a deck surface. The abrasive nature of the water stream can potentially cause damage by driving the spores deeper into the material, which may create a more challenging problem to remedy. A pressure washer with a fan-tipped nozzle should be used only to lightly wet or rinse wood or composite deck surfaces.

There are many deck wash and exterior cleaning products available at retail. It is important to make sure you use a cleaner specifically intended for your application. After selecting a product, be certain to read, understand and follow all instructions supplied by the manufacturer. Some cleaning products and inhibitors may be more effective than others, depending on the environmental conditions your deck is subjected to. Additionally, it is always a good idea to test the cleaner in a small, inconspicuous area prior to applying it to the entire deck (www.deckorators.com).

Tips for snow removal: Care should be taken when removing snow from your deck to avoid damaging the deck surface. Use a plastic snow shovel, one without a metal edge. A stiff push broom can work very well and minimizes lifting. Light snow can be cleared using a leaf blower. Do not attempt to break up or scrape ice from the deck surface; use ice melt products when needed. No concerns have been reported using ice melt products labeled “Safe for Pets”.

Mold inhibitors

As with deck washes, there are several mold-inhibitor products available from paint stores, hardware stores, online outlets and home centers to help prevent long-term mold/mildew growth. For any product selected, be certain to read, understand and follow all instructions provided by the manufacturer. Depending upon the environmental factors affecting your deck, some preventive cleaning products may be more effective than others. It may be necessary to try more than one product. For ongoing preventive maintenance, follow the manufacturer’s recommendation.

Note: Deckorators is not suitable for structural use. It should not be used for primary load-bearing members such as posts, joists, beams or stringers. The same commonsense precautions should be taken when handling Deckorators as with wood or other building materials. Dust masks and eye protection devices are recommended to avoid possible irritation from sawdust and chips. Gloves will help protect hands. Hands should be washed after construction work.

THE DIAGRAMS AND INSTRUCTIONS IN THIS BROCHURE ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT MEANT TO REPLACE A LICENSED PROFESSIONAL. ANY CONSTRUCTION OR USE OF THE PRODUCT MUST BE IN ACCORDANCE WITH ALL LOCAL ZONING AND/OR BUILDING CODES. THE CONSUMER ASSUMES ALL RISKS AND LIABILITY ASSOCIATED WITH THE CONSTRUCTION OR USE OF THIS PRODUCT. THE CONSUMER OR CONTRACTOR SHOULD TAKE ALL NECESSARY STEPS TO ENSURE THE SAFETY OF EVERYONE INVOLVED IN THE PROJECT, INCLUDING, BUT NOT LIMITED TO, WEARING THE APPROPRIATE SAFETY EQUIPMENT. UNIVERSAL FOREST PRODUCTS, INC., MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, AND SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES.
Each Dekorators® Vista™, Heritage™, Vault™ and Voyage™ board has a unique appearance and should be arranged according to the end user’s preference. Prior to construction, check with your local regulatory agency for special code requirements in your area. For best results, follow these simple installation instructions, paying close attention to gapping, spacing and fastener requirements.

### Joist Span

16” on-center for residential perpendicular applications. Residential parquet patterns and diagonal or herringbone designs all require joist spacing 12” on-center. Contact Dekorators product support at 800-332-5724 for commercial applications. Use 1/4” for side gapping.

### End-to-End Spacing

Allow a minimum of 1/16” gap between board ends for every 20°F of difference between installation temperature and the hottest temperature expected (fig. 1). Additional blocking may be needed for support (fig. 2). Allow 1/4” distance between all decking material and any permanent structure or post. After all decking has been attached, snap a chalk line (white or yellow chalk recommended) flush with or up to 1-1/2” out from the deck framing and trim with a circular saw. Dekorators decking, like all wood and composite decking products, requires proper ventilation and drainage in order to ensure its longevity. When using a minimum 2x6 joist standing on edge, with the suggested 1/4” side gap, there should be a 2” clear space between the bottom edge of the joists and grade to allow for proper ventilation. Adequate drainage is also needed to prevent water from pooling under the deck.

NOTE: ONLY Dekorators Voyage, Vault and Frontier deck material, manufactured with Evoations™ technology, may be installed in contact with the ground or incidental submersion in water when a project design requires those conditions.

### Fasteners

For a list of recommended and compatible fasteners please visit www.Deckorators.com/FastenerInfo. Recommended fasteners are those which are recommended by the manufacturer of Dekorators Decking. Compatible fasteners are those which have been tested and recommended for use with Dekorators Decking by the fastener manufacturer. The use of a non-recommended fastener will not void the Dekorators Decking Warranty; however, if a decking failure is caused by the use of a non-recommended fastener, any corresponding warranty claim will be denied.

For ease of installation, we recommend using 2-1/2” corrosion-resistant, composite wood deck screws. These screws help minimize the common “mushroom” effect that sometimes occurs when using standard fasteners. They can also reduce the amount of pre-drilling and countersinking. If using ordinary coarse thread deck screws, always pre-drill a pilot hole and countersink prior to driving screws.
Screws should be driven flush with the Deckorators decking surface. Do not over-tighten. Use two fasteners per deck board at each joist. For any decking where two boards meet end-to-end over a joist, add additional blocking (fig. 2). Always pre-drill a pilot hole and countersink at board ends when using either composite or wood screws. Be careful not to over-tighten screws near board ends.

Please refer to PFS-TECO RR-0100 for stringer spacing when deck boards are used as stair treads.

### Color Variation

Like most composites, Deckorators Decking will have color variations from piece to piece. This is due to naturally occurring variations in wood fibers and polymers. Purchasing all required decking material at one time is recommended, as manufacturing runs can produce slightly different colors. Do not install if color variation is not acceptable.

### Preventing Mold and Mildew Growth

Mold and mildew can be a nuisance on any exterior building surface, regardless of the material. If the conditions are right, they will grow on wood, plastic, concrete, metal and other surfaces. Mold formation is most prevalent in consistently wet, shaded areas. Spores from the natural environment are carried by the wind and commonly land on decks surfaces. It is important to note that the appearance of mold/mildew is a function of nature, not necessarily a deficiency with any of the material on which it grows.

### Cleaning

Periodic washing with soap/mild detergent and water will help remove surface dirt. This will also help prevent the buildup of pollen, debris and spores that can cause and accelerate mold/mildew growth. 

**Caution:** A pressure washer should not be used to “blast” mold/mildew or soils from a deck surface. The abrasive nature of the water stream can potentially cause damage by driving the spores deeper into the material, which may create a more challenging problem to remedy. A pressure washer with a fan-tipped nozzle should be used only to lightly wet or rinse wood or composite deck surfaces.

There are many deck wash and exterior cleaning products available at retail. It is important to make sure you use a cleaner specifically intended for your application. After selecting a product, be certain to read, understand and follow all instructions supplied by the manufacturer. Some cleaning products and inhibitors may be more effective than others, depending on the environmental conditions your deck is subjected to. Additionally, it is always a good idea to test the cleaner in a small, inconspicuous area prior to applying it to the entire deck (www.deckorators.com).

**Tips for snow removal:** Care should be taken when removing snow from your deck to avoid damaging the deck surface. Use a plastic snow shovel, one without a metal edge. A stiff push broom can work very well and minimizes lifting. Light snow can be cleared using a leaf blower. Do not attempt to break up or scrape ice from the deck surface; use ice melt products when needed. No concerns have been reported using ice melt products labeled “Safe for Pets”.

### Mold Inhibitors

As with deck washes, there are several mold-inhibitor products available from paint stores, hardware stores, online outlets and home centers to help prevent long-term mold/mildew growth. For any product selected, be certain to read, understand and follow all instructions provided by the manufacturer. Depending upon the environmental factors affecting your deck, some preventive cleaning products may be more effective than others. It may be necessary to try more than one product. For ongoing preventive maintenance, follow the manufacturer’s recommendation.

**Note:** Deckorators is not suitable for structural use. It should not be used for primary load-bearing members such as posts, joists, beams or stringers. The same common-sense precautions should be taken when handling Deckorators as with wood or other building materials. Dust masks and eye protection devices are recommended to avoid possible irritation from sawdust and chips. Gloves will help protect hands. Hands should be washed after construction work.
STOWAWAY™ HIDDEN FASTENERS

TOOLS AND ITEMS NEEDED

- Drill/power screwdriver
- 1/8” drill bit
- Circular saw with carbide-tip blade
- Assorted fasteners (see instructions)
- Tape measure
- Carpenter’s pencil
- Safety glasses/goggles

Notice to installers:
- Use 305 stainless steel, black head screws
- DO NOT use cordless impact drivers
- Set drill speed at 1500-1750 RPM
- Max torque not to exceed 23 inch pounds
- Pre-drill knots or dense hardwood

Each Deckorators Vista, Heritage, Vault and Voyage board has a unique appearance and should be arranged according to the end user’s preference. Prior to construction, check with your local regulatory agency for special code requirements in your area. For best results, follow these simple installation instructions, paying close attention to gapping, spacing and fastener requirements.

JOIST SPACING

<table>
<thead>
<tr>
<th>DECK SIZE</th>
<th>12” on-center</th>
<th>16” on-center</th>
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<tr>
<td>100 sq. ft.</td>
<td>210 fasteners</td>
<td>175 fasteners</td>
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<td>200 sq. ft.</td>
<td>441 fasteners</td>
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<td>300 sq. ft.</td>
<td>672 fasteners</td>
<td>512 fasteners</td>
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<tr>
<td>400 sq. ft.</td>
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<td>500 sq. ft.</td>
<td>1,113 fasteners</td>
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Board-End to Board-End Gapping Requirements

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Notice: Always follow best workmanship practices. Including, and not limited to, square cutting both board ends prior to installation. Cutting all ends of boards prior to installation recommended.

16” on-center for residential perpendicular applications. Residential parquet patterns and diagonal or herringbone designs require joist spacing of 12” on-center. Contact Deckorators product support at 800-332-5724 for commercial applications. Use 1/4” for side gapping.

Fasten the outside edge of the first board to the rim joist with screws. Pre-drill and countersink all deck screws, regardless of type, that are within 1-1/2” of the end of the deck board. On the other side of the board, place a Stowaway hidden fastener into the slot and center on the joist.

Follow the gapping requirements listed in fig. 1. For any decking where two boards meet end-to-end over a joist, add additional blocking (fig. 2 on the following page). Allow 1/4” distance between all decking material and any permanent structure or post. After all of the decking has been attached, snap a chalk line (white or yellow chalk recommended) flush with or up to 1-1/2” out from the deck framing and trim with a circular saw.

All wood and composite decking products require proper ventilation and drainage to ensure their longevity. When using a minimum 2x6 joist standing on edge and the suggested 1/4” side gap, there should be a 2” clear space between the bottom edge of the joists and grade in order to allow for proper ventilation. Adequate drainage is also needed to prevent water from pooling under the deck.

Note: ONLY Deckorators Voyage, Vault and Frontier decking material, manufactured with Eovations technology, may be installed with the ground or incidental submersion in water when a project design requires those conditions.
For ease of installation, our Stowaway fastener fits into the groove on each side of the deck board to eliminate pre-drilling and provide a fastener-free deck surface. The deck boards require traditional fasteners on the outside and inside edges of the deck.

**Step 1** Begin by fastening the outside edge of the first board to the rim joist every 16". For this, we recommend using 2-1/2" corrosion-resistant, composite wood deck screws. These screws help minimize the common “mushroom” effect that sometimes occurs when using standard fasteners. They can also reduce the amount of pre-drilling and countersinking.

*Note: If using ordinary coarse-thread deck screws, always pre-drill a pilot hole and countersink prior to driving screws. Screws should be driven flush with the surface. Do not over-tighten. Use one fastener per board every 16".*

**Step 2** For any decking where two boards meet end-to-end over a joist, add additional blocking. Always predrill a pilot hole when fastening within 1-1/2" of board ends, whether using composite or wood screws. Do not over-tighten screws at board ends.

**Step 3** On the other side of the board, place a Stowaway hidden fastener into the groove and center on the joist (fig. 3). Install the preset screw at a 90° angle through the Stowaway fastener and drive flush. Do not over-tighten. The fastener wings must remain level with the joist for the next board to fit correctly (fig. 4).

**Step 4** Install one Stowaway fastener at each joist location. Slide the next board into place so the wings on the previous fasteners fit into the groove on the side of the board. Make sure the side gap between the boards is 1/4".

**Step 5** To keep the interior boards from moving over time, we recommend pinning the boards at the center of their length using a #8, 2" stainless steel screw. This holds the deck board in place at the center of each board and allows the decking to expand/contract at the ends. Pre-drill in the groove of the deck board with an 1/8" drill bit (fig. 5a). Drive screw into the groove so it’s flush with the bottom of the groove (fig. 5b). This will allow you to properly fit a Stowaway hidden fastener into the groove.

**Step 6** Install a Stowaway hidden fastener clip over the screw and centered over the joist. Fasten using preset screw at a 90° angle through the Stowaway hidden fastener and drive flush with the clip (fig. 6). The fastener wings must remain level with the joist for the next board to fit correctly (fig. 4).
Preventing Mold and Mildew Growth

Mold and mildew can be a nuisance on any exterior building surface, regardless of the material. If the conditions are right, they will spawn on wood, plastic, concrete, metal and other surfaces. Mold formation is most prevalent in consistently wet, shaded areas. Spores from the natural environment are carried by the wind and commonly land on deck surfaces. It is important to note that the appearance of mold/mildew is a function of nature, not necessarily a deficiency with any of the material on which it grows.

Cleaning

Periodic washing with soap/detergent and water will help remove surface dirt. This will also help prevent the buildup of pollen, debris and spores that can cause and accelerate mold/mildew growth.

CAUTION: A pressure washer should not be used to “blast” mold/mildew or soils from a deck surface. The abrasive nature of the water stream can potentially damage the material by driving the spores into the material, which may create a more challenging problem to remediate. A pressure washer with a fan-tipped nozzle should be used only to lightly wet or rinse wood or composite deck surfaces.

There are many deck wash and exterior cleaning products available at retail stores. It is important to make sure you use a cleaner specifically
intended for your application. After selecting a product, be certain to read, understand and follow all instructions supplied by the manufacturer. Some cleaning products and inhibitors may be more effective than others, depending on the environmental conditions your deck is subjected to. Additionally, it is always a good idea to test the cleaner in a small, inconspicuous area prior to applying it to the entire deck.

Tips for snow removal: Care should be taken when removing snow from your deck to avoid damaging the deck surface. Use a plastic snow shovel, one without a metal edge. A stiff push broom can work very well and minimizes lifting. Light snow can be cleared using a leaf blower. Do not attempt to break up or scrape ice from the deck surface; use ice melt products when needed. No concerns have been reported using ice melt products labeled “Safe for Pets”.

**Mold Inhibitors**

As with deck washes, there are several mold-inhibitor products available from paint stores, hardware stores, online outlets and home centers to help prevent long-term mold/mildew growth. For any product selected, be certain to read, understand and follow all instructions provided by the manufacturer. Depending upon the environmental factors affecting your deck, some preventive cleaning products may be more effective than others. It may be necessary to try more than one. For ongoing preventive maintenance, follow the manufacturer’s recommendation.

**Note:** Deckorators is not suitable for structural use. It should not be used for primary load-bearing members such as posts, joists, beams or stringers. The same common-sense precautions should be taken when handling Deckorators as with wood or other building materials. Dust masks and eye protection devices are recommended to avoid possible irritation from sawdust and chips. Gloves will help protect hands. Hands should be washed after construction work.

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The diagrams and instructions in this brochure are for illustration purposes only and are not meant to replace a licensed professional. Any construction or use of the product must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction or use of this product. The consumer or contractor should take all necessary steps to ensure the safety of everyone involved in the project, including, but not limited to, wearing the appropriate safety equipment. Except as contained in the written limited warranty, the warrantor does not provide any other warranty, either express or implied, and shall not be liable for any damages, including consequential damages.
Tools and Items Needed

- Safety glasses
- Pencil or pen
- Tape measure
- Utility knife
- Jigsaw
- Carpenter’s square (speed square)
- Power screw gun or drill
- Flooring nailer
- Soft mallet
- Portable power saw
- Fine-tooth saw blades (40-tooth minimum, sharp carbide-tipped wood or finish/trim blades
- Large file or medium-grit sandpaper
- Chalk line
- Spacing tools
- Fastener-specific tools recommended by manufacturer

Joist Spacing Requirements

<table>
<thead>
<tr>
<th>Standard</th>
<th>Picture Frame</th>
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<td>16&quot;</td>
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Gapping Requirements

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<th></th>
<th>Above 32°F (0°C)</th>
<th>Below 32°F (0°C)</th>
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<tbody>
<tr>
<td>End-to-End</td>
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<td>3/16&quot;</td>
</tr>
<tr>
<td>End-to-Side</td>
<td>1/8&quot;</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>Abutting Solid Objects</td>
<td>1/8&quot;</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>

Cutting

- 10" 40T, 80T circular blade.
- 12" 40T, 72T, 80T circular blade.
- Upcut with a clean/smooth jigsaw blade.
- Cut porch flooring with the leading edge of the saw blade, cutting into the exposed face. Use a sharp utility knife or jigsaw to finish cuts where a circular saw cannot fully complete cut.
- Use a jigsaw to cut openings to protrusions.
- If necessary, use a large file or medium-grit sandpaper to clean cut edges.
- Use a utility knife to cut any fibers or strands. (In the rare even that a strand or fiber protrudes from the board, do not pull it.)

Fastener Requirements

- For best results, use a 2" SS "L" or "T" shape cleat nails.
- Where face fasteners are used, use corrosion-resistant, galvanized or stainless steel fasteners.
- #8x2" SS trim head screws.
- Reverse thread composite screws.
- Set power driver such that screws are slightly counter sunk. Do not overdrive.

Deckorators® porch flooring has a unique appearance and should be arranged according to the end user’s preference. Prior to construction, check with your local regulatory agency’s code requirements. For best results, follow all installation instructions, paying close attention to gapping, spacing and fastener requirements.

Deckorators porch flooring is a one-sided product and must be installed with the embossed surface up. Deckorators porch flooring must be installed over a code-compliant substructure and is not intended to support structural columns or porch posts. Structural support for columns and porch posts must be incorporated into the substructure design. Deckorators porch flooring is not intended to be used in applications that require a watertight surface. Caulk and adhesives should not be used in the tongue and groove. Painting is not recommended.
• If using a hidden fastener system, use the manufacturer’s recommended fastener and follow the manufacturer’s instructions.
• One fastener per joist minimum.
• Ends of each board must fall on a joist.
• Double joist or use blocking where two board ends meet.
• 1" maximum cantilever.
• Install entire porch at same temperature.
• Square the first board to the house, paying attention to gapping requirements, and secure in place using face screws on the groove side.
• The tongue side is fastened using cleat nails with a flooring nailer, or screws. If using screws, insert the screw just above the tongue at a 45° angle and counter sink the screw 1/6" into the material to allow for the next board. If using a flooring nailer, ensure the nailer is properly seated on the tongue side of board and drive cleat into the board, following the proper nailer instructions. If the nailer is not properly seated it could cause difficulty installing the next board and in some instances, even cause blenmishes on the surface of the porch flooring.
• Install the porch flooring starting from the outside edge of the platform and work toward anchor wall so that ripped pieces abut the wall.
• Start installing from one end of the board and work toward the other end of the board. OR: Start installing from the center of the board and work out toward the ends of the board. Do not install by fastening each end first and working toward the middle.
• Continue installing porch flooring, adhering to the gapping requirements. Note: ONLY Deckorators Frontier and Vault decking material and porch flooring, manufactured with Eovations™ technology, may be installed in contact with the ground or incidental submersion in water when a project design requires those conditions.

Like most composites, Deckorators porch flooring will have color variations from piece to piece. This is due to naturally occurring variations in polymers. Purchasing all required porch flooring material at one time is recommended, as manufacturing runs can produce slightly different colors. Do not install if color variation is not acceptable.

Mold and mildew can be a nuisance on any exterior building surface, regardless of the material. If the conditions are right, they will grow on wood, plastic, concrete, metal and other surfaces. Mold formation is most prevalent in consistently wet, shaded areas. Spores from the natural environment are carried by the wind and commonly land on porch surfaces. It is important to note that the appearance of mold/mildew is a function of nature, not necessarily a deficiency with any of the material on which it grows.

Periodic washing with soap/mild detergent and water will help remove surface dirt. This will also help prevent the buildup of pollen, debris and spores that can cause and accelerate mold/mildew growth. Caution: A pressure washer should not be used to "blast" mold/mildew or soils from a porch surface. The abrasive nature of the water stream can potentially cause damage by driving the spores deeper into the material, which may create a more challenging problem to remedy. The water stream can also cut into the surface of the board if it is too intense. A pressure washer with a fan-tipped nozzle should be used only to lightly wet or rinse wood or composite porch surfaces.

There are many deck/porch wash and exterior cleaning products available at retail. It is important to make sure you use a cleaner specifically intended for your application. After selecting a product, be certain to read, understand and follow all instructions supplied by the manufacturer. Some cleaning products and inhibitors may be more effective than others, depending on the environmental conditions your porch is subjected to. Additionally, it is always a good idea to test the cleaner in a small, inconspicuous area prior to applying it to the entire porch (www.deckorators.com).

As with deck/porch washes, there are several mold-inhibitor products available from paint stores, hardware stores, online outlets and home centers to help prevent long-term mold/mildew growth. For any product selected, be certain to read, understand and follow all instructions provided by the manufacturer. Depending upon the environmental factors affecting your porch, some preventive cleaning products may be more effective than others. It may be necessary to try more than one product. For ongoing preventive maintenance, follow the manufacturer’s recommendation.

Note: Deckorators is not suitable to structural use. It should not be used for primary load-bearing members such as posts, joists, beams or stringers. The same commonsense precautions should be taken when handling Deckorators as with wood or other building materials. Dust masks and eye protection devices are recommended to avoid possible irritation from sawdust and chips. Gloves will help protect hands. Hands should be washed after construction work.
STAIR TREAD INSTALLATION INSTRUCTIONS

Tools and Items Needed

- Drill/power screwdriver
- 1/8” drill bit
- Circular saw with carbide-tip blade
- 2 1/2” composite wood deck screws
- Tape measure
- Carpenter’s pencil
- Safety glasses/goggles

Notice to installers:

- **DO NOT** use cordless impact drivers
- Set drill speed to 1500-1750 RPM
- Max torque not to exceed 23 inch pounds
- Pre-drill knots or dense hardwood

Prior to construction, check with your local regulatory agency for special code requirements in your area. For best results, follow these simple installation instructions, paying close attention to gapping, spacing and fastener requirements.

### Stringer Spacing

Stringers spacing is a maximum of 9” on-center. Minimum of 5 stringers with 4 spans. For commercial applications, maximum of 8” on-center.

### Spacing

Allow a minimum of 1/8” between board ends. Allow 1/4” distance between all stair tread material and any permanent structure or post.

### Fasteners

For a list of recommended and compatible fasteners please visit http://deckorators.com/plan-install/literature.aspx. Recommended fasteners are those which are recommended by the manufacturer of Deckorators Stair Tread. Compatible fasteners are those which have been tested and recommended for use with Deckorators Stair Tread by the fastener manufacturer. The use of a non-recommended fastener will not void the Deckorators Decking Warranty; however if a stair tread failure is caused by the use of a non-recommended fastener, any corresponding warranty claim will be denied.

For ease of installation, we recommend using 3” corrosion-resistant, composite wood deck screws. These screws help minimize the common “mushroom” effect that sometimes occurs when using standard fasteners. They can also reduce the amount of pre-drilling and countersinking. If using ordinary coarse thread deck screws, always pre-drill a pilot hole and countersink prior to driving screws.

Screws should be driven flush with the Deckorators stair tread surface. Do not over-tighten.

Use two fasteners per stair tread at each stringer. For any stair tread where two boards meet end-to-end, an additional stringer is required so each end is supported (Figure 2). Always pre-drill a pilot hole and countersink at board ends when using other composite or wood screws. Be careful not to over-tighten screws near board ends.

### Color Variation

Like most composites, Deckorators stair tread will have color variations from piece to piece. This is due to naturally occuring variations in wood fibers and polymers. Purchasing all required stair tread material at one time is recommended, as manufacturing runs can produce slightly different colors. Do not install if color variation is not acceptable.

### Preventing Mold and Mildew Growth

Mold and mildew can be a nuisance on any exterior building surface, regardless of the material. If the conditions are right, they will grow on wood, plastic, concrete, metal and other surfaces. Mold formation is the most prevalent in consistently wet, shaded areas. Spores from the natural environment are carried by the wind and commonly land on deck surfaces. It is important to note that the appearance of mold/mildew is a function of nature, not necessarily a deficiency with any of the material on which it grows.

### Cleaning

Periodic washing with soap/mild detergent and water will help remove surface dirt. This will also help prevent the buildup of pollen, debris and spores that can cause and accelerate mold/mildew growth. Caution: A pressure washer should not be used to “blast” mold/mildew or soils from a deck surface. The abrasive nature of water stream can potentially cause damage by driving spores deeper into the deck.
material, which may create a more challenging problem to remedy. A pressure washer with a fan-tipped nozzle should only be used to lightly wet or rinse wood or composite deck surfaces.

There are many deck wash and exterior cleaning products available at retail. It is important to make sure you use a cleaner specifically intended for your application. After selecting a product, be certain to read, understand and follow all instructions supplied by the manufacturer. Some cleaning products and inhibitors may be more effective than others, depending on the environmental conditions your deck is subjected to. Additionally, it is always a good idea to test the cleaner in a small, inconspicuous area prior to applying it to the entire deck (www.deckorators.com).

**Mold Inhibitors**

As with deck washes, there are several mold-inhibitor products available from paint stores, hardware stores, online outlets and home centers to prevent long-term mold/mildew growth. For any product selected, be certain to read, understand and follow all instructions provided by the manufacturer. Depending upon the environmental factors affecting your deck, some preventative cleaning products may be more effective than others. It may be necessary to try more than one product. For ongoing preventive maintenance, follow the manufacturer’s recommendation. Note: Deckorators is not suitable for structural use. It should not be used for primary load-bearing members such as posts, joists, beams or stringers. The same common-sense precautions should be taken when handling Deckorators as with wood or other building materials. Dust masks and eye protection devices are recommended to avoid possible irritation from sawdust chips. Gloves will help protect hands. Hands should be washed after construction work.
Attach fascia to the rim joist using 3 screws spaced no further apart than 16” on-center. Fasten the fascia from one end to the other, or from the center out to each end. Never fasten the fascia from both ends to the center. Leave a 1/8” space between the fascia ends where two pieces meet or wherever a piece meets a solid surface (i.e., a corner or a building wall) to allow for expansion of the material. Use one of the recommended installation configurations below for best results. Do not install fascia board flush with decking that runs perpendicular (see figures 1-4 for possible configurations to conceal 2x10 and 2x12 joists).

Note: Deckorators decking is not suitable for structural use. It should not be used for primary load-bearing members such as posts, joists, beams or stringers. The same common sense precautions should be taken when handling Deckorators products as with any wood or other building materials. Dust masks and eye protection devices are recommended to avoid possible irritation from sawdust and chips. Gloves will help protect hands. Hands should be washed after construction work.

**Notice to installers**
- DO NOT use cordless impact drivers
- Set drill speed to 1500-1750 RPM
- Max torque not to exceed 23 inch pounds
- Pre-drill knots or dense hardwood

Note: Always follow best workmanship practices. Including, and not limited to, square cutting both board ends prior to installation.

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Prior to construction, check with your local regulatory agency for code requirements in your area. For best results, follow all installation instructions, paying close attention to gapping, spacing and fastener requirements.

The Sleepers are not structural and must be fully supported along the underside. They are intended to create a floating deck surface on top of an appropriate structure, such as a flat membrane roof or concrete slab. Care must be taken during construction to avoid damaging the roof’s surface.

A roof top deck is a unique application. Consult with a licensed contractor to ensure your roof is a good candidate for a roof top deck. The roof must have sufficient load bearing capacity for a roof deck and be in good condition prior to installation. It must have an appropriate guard, typically a kneewall that meets minimum height and strength requirements in your area (minimum height is measured from the finished walking surface.)

**Sleeper gapping and spacing**

1/4” minimum gap between the sleeper and any solid object. Space sleepers according to deck board and application requirements.

Note: The Deckorators® Sleeper System should only be used with Deckorators decking or porch flooring featuring Eovations™ technology. For best results, we recommend laying strips of EPDM underneath the sleeper system.

**Step 1:** Determine the layout and spacing of the sleepers. Arrange sleepers so they do not block drainage flow. Sleeper ends may be arranged to create “panels” or staggered to tie the surface together. A “panel” type installation allows for easier access to the roof surface for maintenance or cleaning later on. Shims can be cut from scrap sleepers as needed.

**Step 2:** Ensure fasteners are sized correctly and will not extend past the sleeper causing damage to the roof surface. Typically, maximum 2” long face screws. Fasten deck boards according to deck board instructions. Do not overdrive screws.

The diagrams and instructions in this brochure are for illustration purposes only and are not meant to replace a licensed professional. Any construction or use of the product must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction or use of this product. The consumer or contractor should take all necessary steps to ensure the safety of everyone involved in the project, including, but not limited to, wearing the appropriate safety equipment. Except as contained in the written limited warranty, the warrantor does not provide any other warranty, either express or implied, and shall not be liable for any damages, including consequential damages.
Items and Tools Needed

Parts included
(1) Pre-assembled panel
(2) Rail supports for 6 ft
(3) Rail supports for 8 ft
(4) Rail support connectors for 6 ft
(5) Rail support connectors for 8 ft
(6) Brackets with hardware
(Posts and stair rail kits sold separately)

Tools required
- 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.
- Rubber mallet
- Tape measure
- Lag screws
- 3/16” allen wrench
- Safety glasses/goggles
- Marked speed square
- Carpenter’s level
- Carpenter’s pencil
- Adjustable wrench or socket wrench for bolts, etc.
- Rubber mallet
- Tape measure
- Lag screws
- 3/16” allen wrench
- Safety glasses/goggles

Posts Installation

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.
- Determine the number of railing posts needed for your deck. Post spacing is 6’ or 8’ on-center. Example: A 12’ x 16’ deck attached to a building with a 4’ access opening on one side will need a total of eight posts.

Step 1 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 securely attached to the joist structure 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 (not including the decking). 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 (fig. 2).

Step 2 Position the post assembly onto the location where it will attach to the deck. Four 3/8” 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 through the decking and into structural blocking.

Step 3 Reposition the post assembly with the leveling plate inserted between the deck and the post base, and aligned with the predrilled holes. Insert the post fasteners (NOT INCLUDED), and partially tighten. Using a level, adjust the leveling set screws with a 3/16” allen wrench until the post is plumb. Fully tighten the post fasteners to secure the base to the deck structure. Note: Recommended 5/16” x 4” or longer lag screws.

STOP – Make sure post base trim is installed before continuing.
Railing Installation

Prior to construction:

• Check building code requirements for maximum spacing between deck surface and bottom of rail (sweep). Spacing of 3” is recommended for 36” or 42” finished rail height.

Step 1 Measure the distance between installed posts to determine the length of the top and bottom rails. Position rail adjacent to installed posts. The distance between the post and the first baluster should be less than 4” and equal on both ends. Mark the length on top and bottom rails.

Step 2 Remove an additional 1/2” on both ends (1” overall) for the bracket to fit between the rail and post. Trim the top and bottom rails to length (fig. 4).

Step 3 Place the brackets on ends of the rails. Attach the brackets to the rails with a screw attached through back of bracket into each internal screw boss (fig. 5).

Step 4 Prop rail in place and mark the bracket holes on both posts. Remove rail. Predrill screw locations through the posts, using a 3/16” drill bit at top bracket locations and 9/64” drill bit at lower bracket locations.

Step 5 A rail support is needed every 2 feet (2 are included in the 6ft kit, 3 in the 8ft kit). Attach rail support connectors to the bottom of the lower rail at 2-foot intervals. Predrill using a 1/8” drill bit. Attach the rail supports to the support block connectors. Mark the location of the rail support on the deck surface and attach the other rail support connector to the deck using the included screw (fig. 7). For Anodized Brushed Titanium Railing drill two ¼” drain holes through the bottom of the rail to prevent trapping water. Center drain holes between two baluster locations as baluster can block the pathway and stop water from properly draining.

Step 6 Position the rail between the posts. Check for level end-to-end and vertically. Attach brackets to the post at one end. Repeat for the other end. Note: Use a driver extension bit to avoid marring the rail with the drill chuck (fig. 6).

Step 7 Set post caps on each post. Gently tap with rubber mallet to secure.

Prior to construction:

• 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 joists, and make sure the decking is firmly attached to the joists at the location of the posts. Proper structural blocking/framing under the decking material is required when attaching the post to a wood frame deck because decking alone is not approved as structural framing.

Step 1 Begin by determining where the top and bottom post will be located. Mark the desired location of the post.

Stair Railing Installation Instructions
**Step 2** Four 3/8” 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 through decking and into structural blocking.

**Step 3** Reposition the post assembly with the leveling plate inserted between the deck and the post base, and aligned with the predrilled holes. Insert the post fasteners (NOT INCLUDED), and partially tighten. Using a level, adjust the leveling set screws with a 3/16” allen wrench until the post is plumb. Fully tighten the post fasteners to secure the base to the deck structure.

**STOP – Make sure post base trim is installed before continuing.**

**Step 4** Measure the distance between installed posts to determine the length of the top and bottom rails. Position the railing on the stairs on top of a spacer block along the stair nosings. Ensure the balusters are plumb. The distance between the post and the first baluster should be less than 4” and equal on both ends. Once the railing is in position, clamp the railing to the posts.

**Step 5** Temporarily assemble the swivel brackets. Position the swivel bracket in location and mark the rail and post. Repeat for other end of railing. **Note:** The distance from the end of the top rail to the first stair baluster will be 1-1/16” longer than the bottom rail to ensure the balusters are plumb. Add 3/4” to the marked location on the railing and cut to length.

**Step 6** Mark locations of the bracket screw holes on the rails. Remove brackets. Predrill through the rail only, using a 9/64” drill bit. Attach the front end of bracket to rails.

**Step 7** Mark location of the bracket base screw holes on the post. Include the bracket side cover when determining the center location. Predrill through the post, using a 9/64” drill bit. Position the base of each bracket with the bracket cover side facing the stairs, and attach to the post with two screws.

**Step 8** A rail support is needed every 2 feet (2 are included in the 6ft rail kit, 3 in the 8ft kit). Attach rail support connectors to the bottom of the lower rail at 2-foot intervals using included screws. Predrill using a 1/8” drill bit. Mark the location of the rail support on the step tread and attach the other rail support connectors to the step tread. Drill one ¼” drain hole through the bottom of the rail to prevent trapping water. Position the hole toward the lower end of the rail, roughly 1.5” from rail end to avoid the lower bracket.

**Step 9** Install the bottom railing between the posts by sliding the brackets together. Attach the side of the bracket with the barrel bolt to secure in place.

**Step 10** Set post caps on each post. Gently tap with rubber mallet to secure.
Tools and Items Needed

- Drill/power screwdriver
- Mitre 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
- Lag screws
- 3/16” Allen wrench

Post Cap
- Top Rail
- Top Rail Bracket

Cable Spacer
- (1) Top rail
- (2) Top Rail Brackets
- (8) Metal Screws
- (4) Large Screws
- (1) or (2) Cable Spacers
- (2) or (4) Cable Spacer Connectors

Cable Kit with Hardware
- (1) or (2) Cable Spacers
- (2) or (4) Cable Spacer Connectors
- (1) Cable Kit with Hardware

For 6’ On-Center or 8’ On-Center Line Railing:

- 1 Cable rail kit for each 6’ on-center or 8’ on-center section, which contains:
  1 - Top rail
  2 - Top rail brackets
  8 - Metal screws
  4 - Large screws
  1 - Cable spacer for 6’ on-center sections — 2 for 8’
  2 - Cable spacer connectors for each cable spacer

- Cable posts, as needed per the deck layout
  Available in End, Line, Mid-stair and Bottom Stair

- 10 Cable kits for each 36” height run or 12 for each 42” height run, which contains:
  1 - Cable with pre-attached threaded stud on one end, plastic spacer, SS washer, brass locknut and cap
  1 - Pull-lock fitting with Delrin washer and cap

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”. Pre-drill all screw holes for best results. Read In-Line Railing instructions completely to get an understanding of how the product goes together and how each piece affects the other. Note: Use clean tools in order to reduce contamination on stainless steel surfaces. We recommend using new chrome-plated tools to protect the fittings from raw steel. Avoid installing with rusty tools, as they leave rust deposits on the surface of the fittings. After installation, we recommend cleaning the stainless steel parts completely with a stainless cleaner and a soft clean rag in order to clear carbon deposits from the surface.
Step 1 Determine the layout and number of railing posts needed for your deck. Post spacing is 6’ or 8’ on-center. Posts are available pre-drilled for end and line posts. Cable is available in lengths of 5’, 10’, 15’, 20’, 25’, 30’, 40’ and 50’. Many layout options are possible. One tip is to start with the most visible run. It’s the one on which you want the least interference with the view, so you can start from there and build around it. Corner applications: When taking cable through a corner, do not bend the cable past 45˚ at any time. When turning 90˚, a 2-step turn using a double corner post configuration is required, or stop the cable run and start a new run. Example: A 12’ x 16’ deck attached to a building with a 4’ access opening on one side will require a total of nine posts (fig. 4).

Once the layout is determined, all posts, rails and spacers are installed prior to the cable.

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. Proper structural blocking/ framing under the decking material is required when attaching the post to a wood frame deck because decking alone is not approved as structural framing (fig. 5).

Step 3 Ensure the end and line posts are used in the correct location and oriented the proper way. The larger diameter hole on the end posts should face away from the cable run. Position the post assembly onto the location where it will attach to the deck. Four 3/8” 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 through the decking and into structural blocking.

Step 4 Reposition the post assembly with the leveling plate inserted between the deck and the post base, and aligned with the predrilled holes. Insert the post fasteners (NOT INCLUDED), and partially tighten. Using a level, adjust the leveling set screws with a 3/16” allen wrench until the post is plumb. Fully tighten the post fasteners to secure the base to the deck structure. Note: Recommended 5/16” x 4” or longer lag screws. (fig. 6)

Step 5 Finish by sliding a post base trim (optional) over each post for a finished look.

Step 6 Measure the distance between installed posts to determine the length of the top rail. The rails are sized for 6’ and 8’ on-center posts, when using 2.5” posts, and include space for the brackets. Position rail adjacent to installed posts. The distance between the post and the spacer should be equal on both ends. Use one spacer for 6’ rails and two for 8’. Never span more than 36” without a spacer to maintain proper cable spacing. As needed, trim the top rail to length for runs that are less than 6’ or 8’ on-center. Mark the length on top rail, and remove an additional 1/2” from both ends (1” overall) for the bracket to fit between the rail and post.

Step 7 Place the brackets on ends of the rail. Attach the brackets to the rail with a screw attached through back of bracket into each internal screw boss (fig. 8).

Step 8 The finished rail height is typically a minimum of 36” or 42”. Using the cable spacer, prop rail in place and level. Mark the bracket holes on both posts. Remove rail. Predrill screw locations through the posts, using a 3/16” drill bit at top bracket locations (fig. 9).

STOP – Make sure post base trim is installed before continuing.

Step 9 A cable spacer is needed at least every 3 feet (1 is included in the 6ft kit, 2 in the 8ft kit). Attach spacer connectors to the bottom of the top rail. Predrill using a 1/8” drill bit. Attach the spacers to the spacer connectors. Mark the location of the spacer on the deck surface and attach the other spacer connector to the deck using the included screw.

Step 10 Position the rail between the posts. Check for level end-to-end and vertically. Attach brackets to the post at one end. Repeat for the other end. Tip: Use a driver extension bit to avoid marring the rail with the drill chuck. Install all rails prior to installing cable. (fig. 9)

Step 11 Set post caps on each post. Gently tap with rubber mallet to secure.

Install cable according to the cable instructions.
Stair Railing Installation Instructions

Prior to construction:

Step 1 Begin by determining where the top and bottom post will be located. Mark the desired location of the post. Note: For stair rails that are in-line with the deck rail, a line post can be used at the top stair location. For stair rails that are perpendicular to the deck rail, an end post is used to terminate the cable run. The post will be drilled for the stair cable. Position the post so the fasteners will go into the joists, and make sure the decking is firmly attached to the joists at the location of the posts. Proper structural blocking/framing under the decking material is required when attaching the post to a wood frame deck because decking alone is not structural framing.

Step 2 Four 3/8" 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 through decking and into structural blocking.

Step 3 Reposition the post assembly with the leveling plate inserted between the deck and the post base, and aligned with the predrilled holes. Insert the post fasteners (NOT INCLUDED), and partially tighten. Using a level, adjust the leveling set screws with a 3/16" allen wrench until the post is plumb. Fully tighten the post fasteners to secure the base to the deck structure. Note: Recommended 5/16" x 4" or longer lag screws.

Step 4 Finish by sliding a post base trim (optional) over each post sleeve for a finished look.

Step 5 Measure the distance between installed posts to determine the length of the top rail. Position the railing on the stairs on top of a spacer block along the stair nosings. The distance between the post and the cable spacer should be equal on both ends. Once the railing is in position, clamp the railing to the posts. Temporarily assemble the swivel brackets. Position the swivel bracket in location and mark the rail and post. Repeat for other end of railing. Add 3/4" to the marked location on the railing and cut to length.

Step 6 Mark locations of the bracket screw holes on the rails. Remove brackets. Predrill through the rail only, using a 9/64" drill bit. Attach the front end of bracket to rails.

Step 7 Mark location of the bracket base screw holes on the post. Include the bracket side cover when determining the center location. Predrill through the post, using a 9/64" drill bit. Position the base of each bracket with the bracket cover side facing the stairs, and attach to the post with two screws.

Step 8 A cable spacer is needed at least every 3 feet (1 is included in the 6ft rail kit, 2 in the 8ft kit). Trim the cable spacer as needed. Attach cable spacer connectors to the bottom of the rail using included screws. Predrill using a 1/8" drill bit. Mark the location of the cable spacer on the step tread and attach the other cable spacer connector to the step tread.

Step 9 Install the railing between the posts by sliding the brackets together. Attach the side of the bracket with the barrel bolt to secure in place.

Step 10 Set post caps on each post. Gently tap with rubber mallet to secure.

Install cable according to the cable instructions.

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Deckorators® ALX Contemporary Cable Installation Instructions for Level Runs

Tools Required for Installation

- 5/32” Drill Bit
- 1/4” Drill Bit
- 29/64” Drill Bit
- 1/8” Hex Wrench
- 7/16” Wrench
- RFXPL-KEY
- Cut Off Kit (mandrel)
- Cut Off Kit (wheel)

Cut-off Tool
Used to cut cable flush with the end of the Pull-Lock® fittings, and to cut excess threads off stud-type Receivers. Includes mandrel and two cut-off wheels.

A. Drill Posts
Hole size for 1/8” or 3/16” dia. cable installation

Minimum 4” x 4” Wood Post

Minimum 1.9” Metal Post

Hole size for Intermediate Posts for 1/8” dia. cable passing cable only

Hole size for Intermediate Posts for 3/16” dia. cable passing cable only

For End Post using Threaded Stud

For End Post using Pull-Lock® fitting

For Intermediate Post passing cable through CS Tube side (wood post only)

NOTE: Parts must be kept clean and free of debris before installation for best results.
B. Install Tensioning Terminal

1. Install the Threaded Stud end first. Feed the cable and stud through the end post. If using metal posts, start by inserting the plastic stud bushing into the pre-drilled hole in the post. Slide the stainless steel washer (smaller for metal post, larger for wood post) onto the Threaded Stud and start the brass locknut onto the threads as far as possible by hand.

![Diagram of Tensioning Terminal installation](image)

C. Feed Cable through Intermediate Posts

1. Feed the bare end of the cable through all intermediate posts/cable braces and through the end post where you will be installing the Pull-Lock® fitting.

![Diagram of Cable Feed through Intermediate Posts](image)

D. Feed/Crimp Cable through Corner Posts

Instructions for going through corners for both wood and metal posts are available at our website. Scan the QR Code at right with your smart phone, or call us at 800-851-2961 and ask for Cable Railing Technical Support and we’ll email it to you.

E. Install Swageless Terminal

1. Slip the appropriate washer over the body of the Pull-Lock® fitting (Delrin® for metal post, stainless steel for wood post).

2. Rotate the Pull-Lock® fitting clockwise as you push it onto the cable. If the cable begins to “unravel,” you are rotating the fitting in the wrong direction.

![Diagram of Swageless Terminal installation](image)

Note: If you have trouble inserting the cable into the fitting, it may be because the locking wedges have become stuck. This is not a defect! Here’s what you can do to “free the wedges” — For Pull-Lock® or Push-Lock® fittings for 1/8” cable, using either a PL-KEY or 1/4” diameter bolt, insert the PL-KEY or bolt into the hole and press until the wedges move freely. Perform the same operation for a 3/16” Pull-Lock® or Push-Lock®, except use a 16d nail or another tool with 1/8” or smaller diameter. Anything larger than what is recommended can actually get stuck inside the fitting – NOT what you want!
3. Push the Pull-Lock® fitting along the cable and firmly into the hole in your post. While holding the Pull-Lock® fitting against the end post, pull the bare end of the cable to remove as much slack in the cable as possible.

F. Tension Cables
1. Return to the Threaded Stud end post. Insert an 1/8” hex wrench into broached opening on the tip of the stud. Tighten the locknut with a 7/16” wrench while holding the hex wrench to prevent the stud from turning.

2. Tension all cables to desired amount in sequence, beginning with the center cables, moving up and down toward the top and bottom. As you tension each cable, give it a sharp pull downward mid-span to help set the wedges, then re-tension as necessary in the same sequence. Be aware that the cable may move as much as 3/16” toward the tensioning terminal as the wedges seat.

G. Trim Excess Cable
1. When all of the cables are tight, cut off any exposed thread as near to the locknut as possible by using a cut-off wheel or hack saw.

2. Twist the cap over the locknut.

3. Return to the swageless terminal. Cut the cable flush with the hole in the back of the fitting using a cut-off wheel.

4. Twist the cap onto the lip of the Pull-Lock® fitting.
Deckorators® ALX Contemporary Cable
Installation Instructions for Stairs

Tools Required for Installation - see page 1, plus:
• Hammer
• Small block of wood

A. Drill Posts
Neither the threaded stud nor the Pull-Lock® will reach all the way through wood end posts, so you will need to add post protector tubes (aka CS-TUBE) to the inside face of your end posts to protect the wood from the cable as it exits the post at the stair angle. Not needed for metal posts.

Hole size for 1/8” or 3/16” dia. cable installation

B. Install Tensioning Terminal
1. If a wood post, insert the post protector tube first into the face of both end posts. Force each tube into post so it is flush with post face.
2. If using metal posts, start by inserting the plastic stud bushing into the pre-drilled hole in the post. Slide the stainless steel washer onto the threaded stud (smaller for metal post, larger for wood) and start the brass locknut onto the threads as far as possible by hand. Feed the cable through the end post, pulling the threaded stud into place.

C. Feed Cable through Intermediate Posts
1. Pass bare end of cable through intermediate post(s), and through other end post (which includes post protector tube if wood post).

D. Feed/Crimp Cable through Corner Posts
As this section deals with passing cables through corners, which you will not be doing with stairs, please proceed to Section E.
E. Install Swageless Terminal

1. Push the bare cable through the other end post and mark the cable at the point where it enters the end post.

2. Slip the appropriate washer over the body of the Pull-Lock® fitting (Delrin® for metal post, stainless steel for wood post).

3. Rotate the Pull-Lock® fitting clockwise as you push it onto the cable. If the cable begins to "unravel," you are rotating the fitting in the wrong direction.

Note: If you have trouble inserting the cable into the fitting, it may be because the locking wedges have become stuck. This is not a defect! Here's what you can do to "free the wedges:" — For Pull-Lock® or Push-Lock® fittings for 1/8" cable, using either an PL-KEY or 1/4" diameter bolt, insert the PL-KEY or bolt into the hole and press until the wedges move freely. Perform the same operation for a 3/16" Pull-Lock® or Push-Lock®, except use a 16d nail or another tool with 1/8" or smaller diameter. Anything larger than what is recommended can actually get stuck inside the fitting – NOT what you want!

4. Push the Pull-Lock® fitting along the cable and firmly into the hole in your post. Pull on the cable (cable gripping pliers are helpful for this) to create as much tension as possible as you seat the Pull-Lock® fitting into the hole.
F. Tension Cables

1. Return to the Threaded Stud end post. Insert an 1/8” hex wrench into broached opening on the tip of the stud. Tighten the locknut with a 7/16” wrench while holding the hex wrench to prevent the stud from turning.

2. Tension all cables to desired amount in sequence, beginning with the center cables, moving up and down toward the top and bottom. As you tension each cable, give it a sharp pull downward mid-span to help set the wedges, then re-tension as necessary in the same sequence. Be aware that the cable may move as much as 3/16” toward the tensioning terminal as the wedges seat.

3. At both ends of the run, you are going to create a sharp bend in the cable where it exits the post (post protector tube in the wood post) by placing a block of wood (for protection of the post) on the cable next to the post / tube at the face of each post and striking it with a hammer. If tension has diminished slightly as a result of the bending of the cable, re-tension the threaded stud back up to desired amount, as in Step F-2.
G. Trim Excess Cable

1. When all of the cables are tight, cut off any exposed thread as near to the locknut as possible by using a cut-off wheel or hack saw.

2. Twist the cap over the locknut.

3. Return to the swageless terminal. Cut the cable flush with the hole in the back of the fitting using a cut-off wheel.

4. Twist the cap onto the lip of the Pull-Lock® fitting.
Prior to construction, check with your local regulatory agency for special code requirements in your area. Common railing height is 36" or 42". Structural support should come from either the continuation of deck support posts that extend up through the deck floor or railing posts that are bolted to the inside of the rim or outer joists. Important: Never span more than 8’ on-center between railing posts. Install railing posts before deck boards are fastened to the joists. Pre-drilling of all railing components is essential to successful installation. Work area should be kept clean of debris, including metal shavings that can cause scratching. Do not over-tighten screws. 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 Install rail posts prior to installing deck boards. Cedar or pressure-treated pine 4x4 railing posts provide the structural strength for the railing. The length of each structural post is determined by the total of the joist width (7-1/4”) + decking thickness (1”) + railing height (36” or 42”)= 44-1/4” or 50-1/4”.

Important: Do not notch the 4x4 railing posts (fig. 2a). Notching will reduce the strength of the post and could result in railing collapse or failure.

Step 3 Position, plumb with a level, and clamp the rail post on the interior face of the joist. Plumb again. The 4x4 railing post should be bolted to the inside of the joists using two 1/2”x6” galvanized carriage bolts. Corner posts use a third carriage bolt inserted through the adjacent joist (fig. 2b).

Step 4 Install decking. Notch deck boards to fit around the 4x4 railing posts.

Step 5 Trim 4x4 post sleeves to length. Post sleeves should be a minimum of 1-1/2” longer than the overall railing height. Allow an additional 1-1/2” in your calculation if installing the optional cap rail (fig. 3, following page). Example: For a 36” high railing, trim post sleeve to a minimum of 37-1/2” (39” with cap rail). Post sleeve can be left longer if desired.

Some wood preservatives may cause an undesirable reaction when placed in direct contact with aluminum. The inside of the post sleeve includes a liner to prevent direct contact with treated structural posts. If your decking is pressure-treated, place shims under the post sleeve or run a bead of caulk along the bottom edge of the post prior to installing the post sleeve. This will keep the aluminum from having direct contact with the treated decking and will be concealed by the post base trim. Slide a trimmed post sleeve over each 4x4 railing post. Slide a post base trim over each post sleeve. Add a bead of caulk to the underside of the post base trim when using treated decking.

Step 6 Measure the distance between installed post sleeves to determine the length of the top and bottom rails (fig. 1). The distance between the post and first baluster should be less than 4” and equal on both ends (fig. 3, following page). Remove an additional 1/4” on both ends (1-1/2” overall) for the bracket to fit between the rail and post. Trim the top and bottom rails to length.

In-Line Railing Installation Instructions

Tools and Items Needed

- Drill/power screwdriver
- Miter or circular saw with carbide-tipped blade
- Adjustable wrench or socket wrench for bolts, etc.
- Assorted fasteners (see instructions)
- Tape measure
- Hammer
- Marked speed square
- Carpenter’s level
- Carpenter’s pencil
- Safety glasses/goggles
- Two clamps
- Hack saw
- Exterior-grade metal construction adhesive

Scan code to get more information about installing Deckorators Aluminum Railing.

Get the free mobile app at http://gettag.mobi
Angle adaptor wedges are available for 22.5° and 45° rail angles. Important: the holes in the angle adaptor wedges line up with the stair rail connectors (sold separately). If installing a 22.5° angle railing, attach the stair connectors and wedges centered on the posts. If installing a 45° angle railing, attach the 45° adaptor wedges centered on the posts. Attach stair connectors to the 45° using the provided screws.

Measure the distance between the installed angle connectors to determine the length of the top and bottom rails. Cut the top and bottom rails to length.

**Step 7**  Determine the spacing of the balusters.

**Classic and Estate Balusters**  The rails are pre-drilled with the proper spacing. Attach baluster connectors to the top and bottom 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 designer baluster connectors. NOTE: Use screws (self tapping) that are included with rail kit for Classic and Estate Balusters. DO NOT USE screw included with baluster connectors.

**Traditional, Baroque and Arc balusters**  Both top and bottom rails will be installed with the pre-drilled holes facing down to prevent water from collecting in the rail. Maximum 4-1/2” on-center and equal spacing for the end spacing. Start by finding the center of the rail. Rail length ÷ 2 = center of rail. Start the first aluminum baluster on-center of the center line. Mark every 4-1/2” from this line to each end. This will leave the end spacing less than 4” on both ends and require 2.5 aluminum balusters per foot (fig. 4). Tip: Use a piece of 2x4 (3-1/2” actual) as a spacer block for the spacing between balusters.

**Glass balusters**  Both top and bottom rails will be installed with the pre-drilled holes facing down to prevent water from collecting in the rail. 7-1/2” on-center and equal spacing for the end spacing. Start by finding the center of the rail. Rail length ÷ 2 = center of rail. Start the first glass baluster on-center of the center line. Mark every 7-1/2” from the center line to each end. This will leave the end spacing 4” or less on both ends and require 1.5 glass balusters per foot. If installing using connectors, attach connectors to both rails on marked locations. Tip: If face-mounting to rail, use a piece of 2x4 (3-1/2” actual) as a spacer block for the spacing between balusters (fig. 5).

**Step 8**  Position the bottom rail between posts and center. Note: 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 (fig. 3). Mark the location of the bracket on both posts. Remove rail. Mark the screw locations and pre-drill through the post sleeve only, using a 1/4” drill bit. Attach each bracket to the post with two 2” screws.

**Step 9**  A support block is needed at the center of each rail. Cut the support block to the proper height. Attach to the bottom of the lower rail (refer to fig. 1). Find the center of the rail and pre-drill using a 1/8” drill bit. Attach the support block connector using the included screw. 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. Install the bottom rail between the posts. Using the brackets as a guide, pre-drill each screw hole using a 1/8” drill bit and attach each end to brackets using two 1” screws. Tip: Use a driver extension bit to avoid marring the rail or post sleeve with the drill chuck.

**Step 10**  Figure 3 illustrates how a 36”-high railing might be sized. Note: Use a fixture to ensure a consistent length (+/- 1/16”).

**Classic, Estate and Glass balusters using connectors**  Attach balusters to the lower rail by sliding onto connectors (fig. 4).

**Step 11**  Position the top rail between the posts. Check for level end-to-end and vertically. Mark the bracket location on post sleeve and remove rail. Mark the screw locations using the bracket as a guide, and pre-drill using a 1/4” drill bit through the post sleeve only. Attach bracket to the post with two 2” screws at one end. Repeat for the other end.

**Classic, Estate, balusters and Glass balusters using connectors**  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 pre-drilling with a 1/8” drill bit and using three 1” screws. Tip: Use a driver extension bit to avoid marring the rail or post sleeve with the drill chuck.

**Traditional, Baroque, Arc balusters and Face-Mount Glass balusters**  Place the top rail in position. Attach the rail to each bracket by pre-drilling with a 1/8” drill bit and using three 1” screws. Tip: Use a driver extension bit to avoid marring the rail or post sleeve with the drill chuck.

**Step 12**  Traditional, Baroque, Arc balusters and Face-Mount Glass balusters Start the first baluster on-center of the center of the rail and work out to each end.
Using the baluster as a guide, drill 9/64” holes in the rails at each baluster location. Use a 2x4 as a spacer block to space the next baluster. Working toward the ends, drill and attach each baluster with the screws provided (fig. 5).

**Step 13 (optional)** Cut the cap rail and cap rail insert to length. (Note: the cap rail will be 1/2” longer than the top and bottom rails.) Center the cap rail insert on top of the top rail and pre-drill seven 1/8” pilot holes. Attach the cap rail insert to the top rail with seven 1/2” screws. Apply exterior-grade metal construction adhesive to the mating edges of the insert rail. Position cap rail over the insert rail (fig. 6). Install by pressing down, starting from one end and working to the other until the cap rail snaps into place. Gently tap with a rubber mallet if needed.

Angled Railings: For 22.5° rail angles, cut the cap rail and cap rail insert to length and angle using a miter saw. Sand the ends and apply touch-up paint as needed (sold separately). Attach to the top rail following the steps above.

45° rail angles will require a cap rail wedge on top of the 45° adaptor (fig. 7). The cap rail wedge will be cut out of the cap rail. The wedge will require a straight cut on the end in contact with the post and a 22.5° cut on the opposite end. The distance from the post to the wide edge of the wedge is 1-3/4”. Cut two cap rail and insert wedges using a miter saw and install to the top of the 45° adaptors following the steps above. The cap rail will require a 22.5° cut on both ends to match the width of the cap rail wedges. Measure the distance between the installed wedges and cut both ends to length and angle using a miter saw. Sand the cut ends and apply touch-up paint as needed (sold separately) to make the seam less noticeable. Attach the cap rail to the top rail following the steps above.

**Step 14** Apply exterior-grade metal construction adhesive to the inside edges of the post caps and place over each post sleeve.

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**Stair Railing Installation Instructions**

**Step 1** Cedar or pressure-treated pine 4x4 railing posts provide the structural strength for the railing. The length of each structural post is determined by the total of the stair stringer width (7-1/4”) + decking thickness (1”) + railing height (36” or 42”)= 44-1/4” or 50-1/4”.

**Step 2** Position, plumb with a level, and clamp the rail post on the interior face of the stair stringer. Plumb again. The 4x4 railing post should be bolted to the inside of the stair stringer using two 1/2” x 6” galvanized carriage bolts. Corner posts use a third carriage bolt inserted through the adjacent joist (refer to figure 2b). Ground-level posts should be set in concrete.

**Step 3** Complete stair tread installation prior to installing post sleeves. Trim 4x4 post sleeves to length. If using post caps, post sleeves should be a minimum of 1-1/2” longer than the overall railing height (fig. 3). Allow an additional 1-1/2” in your calculation if installing the optional cap rail. Example: For a 36” high railing, trim post sleeve to a minimum of 37-1/2” (39” with cap rail plus the height of the riser. If your railing height is 36”, add 1-1/2” plus 7” for riser). Post sleeve can be left longer if desired.

Some wood preservatives may cause an undesirable reaction when directly in contact with aluminum. The inside of the post sleeve includes a liner to prevent direct contact with treated structural posts. If your decking is pressure-treated, place shims under the post sleeve or run a bead of caulk along the bottom edge of the post prior to installing the post sleeve. This will keep the aluminum from direct contact with the treated decking and will be concealed by the post base trim. Slide a trimmed post sleeve over each 4x4 railing post. Slide post base trim over each post sleeve. Add a bead of caulk to the underside of the post base trim when using treated decking.

**Step 4** Measure the distance between installed post sleeves to determine the length of the top and bottom rails. Lay bottom rail on stairs with the pre-drilled holes facing down. The distance between the post and 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. 8).

**Step 5** Determine the spacing of the balusters, 4-1/2” maximum on-center (7-1/2” on-center if using glass balusters, 4-1/4” on-center if using Ellipse balusters), and equal spacing for the end spacing (see step 7 of the in-line instructions for details).
If using Classic, Estate, Twist or Ellipse balusters, use a 1/8" drill bit to open up the pre-drilled holes to the angle of the stairs. The top and bottom connectors will be facing opposite directions. Attach stair baluster connectors to the rails. Do not overtighten 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 designer baluster connector. 

**Step 6** 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. 9). Mark the location of the bracket on both posts. Remove rail. Mark the screw locations and pre-drill through the post sleeve only using a 1/4" drill bit. Attach each bracket to the post with two 2" long screws.

**Step 7** A support block is needed at the center of each rail. Cut the support block to desired height. Attach to the bottom of the lower rail (refer to fig. 1). Find the center of the rail and pre-drill using a 1/8" 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 8** Position the bottom rail between the posts. Pre-drill with a 1/8" drill bit and attach the rail to the stair brackets using four 1" screws on both ends. **Tip:** Use a driver extension bit to avoid marring the rail or post sleeve with the drill chuck.

**Classic and Estate balusters** Attach balusters to the lower rail by sliding onto connectors. **NOTE:** Use screws (self tapping) that are included with rail kit for Classic, Estate and Twist Balusters. DO NOT USE screw included with baluster connectors.

**Step 9** Position the top rail between the posts. Check for plumb end-to-end and vertically. Mark the bracket location on post sleeve and remove rail. Mark the screw locations using the bracket as a guide, and pre-drill using a 1/4" drill bit through the post sleeve only. Attach bracket to the post with two 2" long screws at one end. Repeat for the other end.

**Classic and Estate balusters** 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 pre-drilling with a 1/8" drill bit and using four 1" screws. **Tip:** Use a driver extension bit to avoid marring the rail or post sleeve with the drill chuck.

**Traditional, Baroque, Arc and Glass balusters** Place the top rail in position. Attach the rail to each bracket by pre-drilling with a 1/8" drill bit and using four 1" screws. **Tip:** Use a driver extension bit to avoid marring the rail or post sleeve with the drill chuck.

**Step 10** Traditional, Baroque and Arc balusters Place a baluster on the rails on-center of one of the marked positions (4-1/2" on-center or 7-1/2" on-center for glass). Make sure the baluster is plumb. Using the baluster as a guide, drill 9/64" holes in the top and bottom rails. Drill and attach baluster with the screws provided. Use a 2x4 spacer block to space next baluster. Drill and attach each baluster to the top and bottom rails with the screws provided. Using a pair of clamps to hold baluster in place while fastening will make this step easier (fig. 9).

**Step 11** (optional) Cut the cap rail and cap rail insert to length (Note: the cap rail will be 1/2" longer than the top and bottom rails). Center the cap rail insert on top of the top rail and pre-drill seven 1/8" pilot holes. Attach the cap rail insert to the top rail with seven 1/2" long screws. Apply exterior-grade metal construction adhesive to the mating edges of the insert rail. Position cap rail over the insert rail. Install by pressing down, starting from one end and working to the other until the cap rail snaps into place. Gently tap with a rubber mallet if needed.

**Step 12** Apply exterior-grade metal construction adhesive to the inside edges of the post caps and place over each post sleeve.
CABLE RAILING INSTALLATION INSTRUCTIONS

Items you will need:

- Drill/power screwdriver
- Assorted drill bits
- Hammer
- Miter or circular saw with fine-tooth carbide tip blade
- Construction adhesive
- Marked speed square
- Two clamps
- Carpenter’s level
- Carpenter’s pencil
- Adjustable wrench or socket wrench
- Safety glasses/goggles
- Assorted fasteners (see instructions)
- Tape measure
- Wire cutters
- Deckorators ALX Pro top rail
- Deckorators post sleeve kit per post (there will be more posts than railing sections)
- Deckorators stainless steel cable rail (sold on spools of 500’)
- Cable hardware: 1 pack per cable, which includes (2) eye lag screws, (1) fork jaw and (1) turnbuckle
- Cable spacer (sold in packs of 2): 1 per 6 ft section, 2 per 8 ft section

For each 6’ or 8’ on-center railing section, you will need:

- 1 - 6’ or 8’ Deckorators ALX Pro top rail
- 1 - Deckorators post sleeve kit per post (there will be more posts than railing sections)
- Deckorators stainless steel cable rail (sold on spools of 500’)
- Cable hardware: 1 pack per cable, which includes (2) eye lag screws, (1) fork jaw and (1) turnbuckle
- Cable spacer (sold in packs of 2): 1 per 6 ft section, 2 per 8 ft section

Installation instructions:

Prior to construction, check with your local regulatory agency for special code requirements in your area. Common railing heights are 36” and 42”. Structural support should come from the continuation of deck support posts that extend up through the deck floor or from railing posts that are bolted to the inside of the rim or outer joists. Never span more than 8’ on-center between railing posts. Install railing posts before deck boards are fastened to the joists. Predrilling of all railing components is essential to successful installation. Do not over-tighten screws. Read instructions completely to get an understanding of how the product goes together and how each piece affects the other. Note: Use clean tools in order to reduce rust explosion on stainless surfaces.

We recommend using a new 5/8” chrome-plated socket to protect the fittings from raw steel. Avoid installing with rusty tools, as they leave rust deposits on the surface of the fittings almost immediately. After installation, it is critical to clean the system completely with a stainless cleaner and a soft clean rag in order to clear the surface from carbon deposits.

Step 1: Determine the number of railing posts needed for your deck. Post spacing is 6’ or 8’ on-center. Corner applications (fig. 1a): When taking cable railing through a corner, do not bend the cable past 45⁰ at any time. When turning 90⁰, a 2-step turn using a double corner post configuration is required. Example: A 12’x16’ deck attached to a building with a 4’ access opening on one side, and one 90⁰ corner, will require a total of nine posts (fig. 1b). Or you can stop your run and start a new one.

Step 2: Install rail posts prior to installing deck boards. Cedar or pressure-treated pine 4x4 railing posts provide the structural strength for the railing. The length of each post is determined by the total of the joist width (7-1/4”) + decking thickness (1”) + railing height (36” or 42”) + spacing for post cap (1-1/4”) = 45-1/2” or 51-1/2”. Important: Do not notch the 4x4 railing posts. Notching will reduce the strength of the post and could result in railing collapse or failure (fig. 2a).

Step 3: Position, plumb with a level, and clamp the rail post on the interior face of the joist. Plumb again. The 4x4 railing post should be bolted to the inside of the joists using two 1/2”x6” galvanized carriage bolts. Corner posts use a third carriage bolt inserted through the adjacent joist (fig. 2b).
Step 4: Install decking. Notch deck boards to fit around the 4x4 railing posts. Allow 1/4" between the deck boards and any permanent structure or post. Additional blocking may be necessary on the 4x4 railing posts for fastening deck boards.

Step 5: Trim 4x4 post sleeves to length if you plan to use a post cap. Post sleeves should be a minimum of 1-1/2" longer than the railing height (fig. 3). Example: For a 36" railing, trim post sleeves to a minimum of 37-1/2", or longer if desired. Slide a trimmed post sleeve over each 4x4 railing post. Use shims as needed to create a snug fit. Slide a post base trim over each post sleeve.

Step 6: Find the center of your post sleeve and clamp the cable spacer in place. This will be your template for predrilling holes for cables. Predrill holes using a 3/16" drill bit (fig. 4). Note: When running a cable through the post, drilling halfway through one side of the post and then remeasuring and drilling through the other side will result in a much easier, cleaner finish. You can also make a template by using a 2x4 and aligning it to your post sleeve.

Step 7: Refer to specific instructions included in the railing kit to install the top rail to your post. Use the included connectors to assemble the cable spacer(s) to the top rail. Line up the connector with the center of your rail for 6' applications and mark for positioning. Position cable spacer on deck and fasten with included screws. Note: Use one cable spacer per 6’ section and two per 8’ section (1 spacer every 2.5 ft for 8’).

Step 8: Install eye lag screws into the predrilled post sleeve holes on both ends of rail (fig. 5). Tip: Use a 5/8" socket and drill to install eye lags into post.

Step 9: Remove the pinch pin from the fork jaw and turnbuckle and install into eye lag screws. Note: Install all fork jaws on one end of rail and all turnbuckles on other end.

Step 10: Open turn buckle all the way before installing cables.

Step 11: To install cable, start at the turnbuckle location and feed cable through cable spacers/posts to fork jaw location. To install cable into fork jaw or turnbuckle, slide jaw housing onto one end of the cable. Slide the jaws onto the cable. Place the brass pressure ring onto the cable 5 mm from the end. Slide the jaw housing down over the jaws (fig. 6). Tighten the lock nut firmly to the jaw housing. Run cable through cable spacer(s)/post.

Step 12: Repeat step 10 on opposing side of cable to create tension. NOTE: Install all cable before tightening.

Step 13: To tighten cable, start at the center point and alternate between tightening top and bottom cables by inserting a screwdriver in the turnbuckle and turning to create tension. Use a wrench to hold cable in place so it doesn’t turn along with turnbuckle. To finish, tighten nut from each side of turnbuckle. Tip: Use two wrenches (#10 and #12) to hold nut and jaw assembly to tighten.

Step 14: Wipe down all stainless surfaces with stainless cleaner after complete installation.

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**Posts Installation**

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.
- Determine the number of railing posts needed for your deck. Post spacing is 6’ or 8’ on-center. Example: A 12’ x 16’ deck attached to a building with a 4’ access opening on one side will need a total of eight posts. To minimize cutting, use as many full panels as possible.
- If installing low-voltage lighting, wiring must be installed before securing posts to deck surface.

Step 1 - 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 securely attached to the joist structure 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 (not including the decking). 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 (fig. 2).

Step 2 - 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 3 - Reposition the post assembly with the leveling plate inserted between the deck and the post base, and aligned with the predrilled holes. Insert the post fasteners (NOT INCLUDED), and partially tighten. Using a level, adjust the leveling set screws with a 3/16” allen wrench until the post is plumb. Fully tighten the post fasteners to secure the base to the deck structure. Note: Recommended 5/16” x 4” or longer lag screws.

STOP: Make sure post base trim is installed before continuing.

For rail kits: Baluster connectors are attached to bottom and top rail, but should be fully tightened by hand to railing before being installed. Do not overtighten.
Railing Installation

Prior to construction:

- Check building code requirements for maximum spacing between deck surface and bottom of rail (sweep). Spacing of 3” is recommended for 36” or 42” finished rail height.

Step 1 Measure the distance between installed posts to determine the length of the top and bottom rails. The rails are sized for 6’ and 8’ on-center posts, when using 2.5” posts, and include space for the brackets. Position rail adjacent to installed posts. The distance between the post and the first baluster should be less than 4” and equal on both ends. As needed, mark the length on top and bottom rails, trim the rails to length for runs that are less than 6’ or 8’ o.c. and remove an additional 1/4” on both ends (1/2” overall) for the bracket to fit between the rail and post.

Step 2 Temporarily place the brackets on either end of the bottom rail. Position the bottom rail between posts and center. Mark the location of the bracket on both posts. Remove rail and brackets. Mark the screw locations and predrill through the posts only, using a 1/8” drill bit.

Step 3 Attach each bracket to the posts with three 3/4” screws.

Step 4 A rail support is needed every 2 feet (2 are included in the 6ft kit, 3 in the 8ft kit). Attach rail support connectors to the bottom of the lower rail at 2 foot intervals. Predrill using a 1/8” drill bit. Attach the rail supports to the rail support connectors. Mark the location of the rail support connector on the deck surface and attach the other rail support connector to the deck using the included screw.

Step 5 Install the bottom rail between the posts by setting it in the brackets. Snap top trim piece to the rail bracket.

Step 6 Attach baluster to the lower rail by sliding onto connection (fig. 4).

Step 7 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 1/8” drill bit. Attach bracket to the post with three 3/4” screws at one end. Repeat for the other end.

Step 8 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 1/8” drill bit and using two 3/4” screws. **Tip: Use a driver extension bit to avoid marring the rail with the drill chuck.**

Step 9 Set post caps on each post. Gently tap with rubber mallet to secure.

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**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. Proper structural blocking/framing under the decking material is required when attaching the post to a wood frame deck because decking alone is not approved as structural framing. Use 49” post for 36” stair railing and 54” post for 42” stair railing.

**Step 2** Four 3/8” 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 with the leveling plate inserted between the deck and the post base, and aligned with the predrilled holes. Insert the post fasteners **(NOT INCLUDED)**, and partially tighten. Using a level, adjust the leveling set screws with a 3/16” allen wrench until the post is plumb. Fully tighten the post fasteners to secure the base to the deck structure.

**STOP: Make sure post base trim is installed before continuing.**

**Step 4** 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 up. The distance between the post and the first baluster should be less than 4” and equal on both ends. Mark the length on top face at both ends of rail using a square or straight edge where it meets the posts. Remove an additional 1.25” at the uphill end of rail, and 1/8” at downhill end of rail, to allow for the stair connectors. Cut bottom rail to length. **Note: The distance from the end of the top rail to the first stair baluster will be 1-1/16” longer than the bottom rail to ensure the balusters are plumb.**

On the cut bottom rail, measure to the underside of the top rail. Add 1-1/16” to this measurement and cut the uphill end of top rail. Measuring from the cut end, mark and cut the other end of top rail to match overall length of bottom rail (fig. 7).

**Step 5** Mark location of the bracket screw holes on bottom rails. Remove bracket. Predrill through the rail only, using a 1/8” drill bit.
Step 6 Attach each bracket to the post with two 1-3/4" screws.

For rail kits: Baluster connectors are attached to bottom and top rail, but should be fully tightened by hand to railing before being installed. Do not over tighten.

Step 7 Lay bottom rail on stairs against the posts with the predrilled holes facing up. The distance between the post and the first baluster should be less than 4" and equal on both ends. Mark the rail where it meets the inside of the installed brackets. Do the same with the top rail, but with the predrilled holes facing down. Trim the top and bottom rails to length with a 90 degree cut.

Step 8 A rail support is needed every 2 feet (2 are included in the 6ft kit, 3 in the 8ft kit). Attach rail support connectors to the bottom of the lower rail at 2 foot intervals using included screws. Predrill using a 1/8" drill bit. Mark the location of the rail support on the step tread and attach the other rail support connectors to the step tread.

Step 9 Install the bottom rail between the posts by setting rail in brackets. Secure bottom rail to brackets using two 3/4" screws. Tip: Use a driver extension bit to avoid marring the rail or post with the drill chuck. Snap top trim piece to the rail bracket.

Step 10 Attach balusters to the lower rail by sliding onto the connectors. Stair connectors are set at 35°.

Step 11 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 1/8" 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 1/8" 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 12 Set post caps on each post. Gently tap with rubber mallet to secure.

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Prior to construction, check with your local regulatory agency for special code requirements in your area.

Start with an Inside Corner piece when applicable.

Guidelines:
• The height of the secondary handrail must be installed between 34" and 38" above the surface, regardless of the height of the guard.
• We recommend that handrails be dry fit prior to final installation to eliminate cutting and fastening errors.
• IMPORTANT: The secondary handrail must be attached to a structural support. When installing mounting brackets on post sleeves, ensure the hardware attaches to the structural support.
• For maximum strength, brackets should be used at every post and every joint, or as closely as possible to the joint.
• An adhesive may be applied to further reinforce construction.
• Handrails must be supported every 6’ on-center by a mounting bracket.

Items You Will Need

- Pencil
- Tape Measure
- Level
- #2 Square Drive Bit
- Drill
- Chop/Miter Saw
- Quick Clamps
- PVC Cleaner

Components:
1. ADA Secondary Handrail 104”
2. 6” Straight Joiner
3. 4” Inside/Outside Corner
4. Straight End Wall Bracket
5. Inside Corner Bracket
6. End Cap
7. P-Loop Return
8. 6” Adjustable Joiner
9. 90° Quick Return Bracket
10. External Swivel
11. Offset Bracket

Aluminum Offset Bracket (Line Post Mounting Bracket)

Step 1: Measure 2-1/2” less than the handrail height to determine bracket position. Mark surface.

Step 2: Align the top of the bracket mounting plate with the mark made in Step 1. Drill 5/32” pilot holes and attach to the desired surface using the 2-1/4” screws provided.

Step 3: Clamp handrail to bracket at appropriate location to secure in place.

Step 4: Drill 5/32” pilot holes and attach handrail using the 1” screws provided.

Handrail with Aluminum Insert

Step 1: Dry fit handrails to determine proper lengths prior to cutting rails.

Step 2: Measure and cut rails to proper lengths for all runs.

Step 3: Install to handrail component, following instructions for the components.

External Swivel

Step 1: Adjust external swivel to desired angle and install set screw.

Step 2: Cut handrail with aluminum insert to desired length.

Step 3: Insert external swivel bracket into the aluminum portion of the handrail.

Step 4: Pre-drill handrail and bracket with 5/32” drill bit and install 1” screw provided.
**Adjustable Joiner**

**Step 1:** Measure the angle needed. Adjoin the two joiner halves together by inserting the bolt. Place the joiner halves at the desired angle, and tighten bolt to set.

**Step 2:** Cut handrails at ½ the desired angle. Slide handrails onto adjustable joiner.

**Step 3:** Drill 5/32” pilot holes and fasten handrails together using 1” screws.

**Aluminum Joiner Kit**

**Step 1:** Use aluminum joiner to fasten handrail components at straight joints.

**Step 2:** Slide joiner an equal distance into both components. Drill 5/32” pilot holes and fasten using 1” screws provided. 

*Note: All joiners should be supported by an aluminum bracket as closely as possible to the joint.*

**90° Post Return**

**Step 1:** Slide 90° post return into handrail.

**Step 2:** Drill 5/32” pilot holes into the desired surface and attach post return using 1-1/2” screws provided.

**Step 3:** Drill 5/32” pilot holes into handrail and attach using 1” screws provided.

**Straight Aluminum Wall Mount**

**Step 1:** Slide aluminum wall mount into handrail.

**Step 2:** Drill 5/32” pilot holes into desired surface and attach wall mount using 2-1/4” screws provided.

**Step 3:** Drill 5/32” pilot holes into handrail and attach using 1” screws provided.

**P-Loop Return**

**Step 1:** Attach top bracket at desired location using appropriate connectors.

**Step 2:** Cut P-Loop to desired length.

**Step 3:** Connect P-Loop to secondary handrail tube using the appropriate joiners (Straight, Adjustable joiners or External swivel).

**Step 4:** Set P-Loop on top of bracket and pre drill with drill bit and install 1” screw provided.

**Step 5:** Install desired lower bracket.

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**INLINE RAILING**

Prior to construction, check with your local regulatory agency for special code requirements in your area. Common railing height is 36”. Structural support should come from either the continuation of deck support posts that extend up through the deck floor or from railing posts that are bolted to the inside of the rim or outer joist. **6’ on-center post spacing is recommended. Never span more than 8’ on-center between railing posts.**

**Step 1:** Measure railing opening, from post to post to determine the length of each baluster rail section.

**Step 2:** Cut top and bottom rails (2x4s) to length and clamp together. Mark top and bottom rails 4-1/2” on-center, starting from the center of the rail.

**Step 3:** Using a drill driver, screw on Deckorators baluster connectors (sold separately) on each mark using the screws provided. 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 connector, where the baluster will make contact with the connector’s outer edge.

*Note: Specific types of treated lumber are known to corrode aluminum. Deckorators baluster connectors provide a barrier between the aluminum balusters and treated lumber to ensure long term performance.*

**Step 4:** Place the bottom rail between the rail posts, supported by a 3” block (2x4 scrap material works best). Secure rail to posts using Deckorators rail connectors (sold separately) and slide balusters over the bottom connectors. Carefully place top rail over the balusters, making sure each baluster is seated properly on each connector.
Step 5: Inspect finished railing for proper baluster spacing and secure top rail. Add a cap rail for a finished look.

Step 6: For rail sections longer than 4’, support blocks are recommended. These can be made from leftover 2x4 rail material. Properly position the support block and toe-nail it to the bottom rail and deck board.

Step 7: Stair rails and balusters can present an installation challenge. Deckorators angled stair rail connectors (sold separately) create a snug and accurate baluster fit for stair angles at 35 degrees. Cut top and bottom stair rails at the proper angle. Lay top and bottom 2x4 rails alongside the posts and mark.

Step 8: Clamp the top and bottom rails together with the top 2x4 rail inverted. Position rails as shown and mark 5-1/2” on-center, working from the center out to the ends of the rails.

Step 9: Properly position the connectors on the rails. The top and bottom connectors will be facing opposite directions. Screw the connectors in place. To properly set angled connectors, begin screwing vertically until the screw bites into the wood. Reposition screw to the proper angle and tighten. Do not over-tighten, which can move the connector off center.

Step 10: Make sure connectors are properly aligned, apply silicone caulk to each stair connector, and assemble the top and bottom rails with the balusters. Then attach full rail section between the stair rail posts.

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**Kit Contents:**
- 10 - Aluminum balusters (2.5 balusters required per linear foot of railing)

**Items You Will Need:**
- Estate baluster connectors (sold separately)
- Estate stair adaptors (sold separately)
- Deckorators rail connectors (optional, sold separately)
- Drill driver
- Tape measure
- Clamps
- Safety glasses
- Carpenter’s pencil
- White rubber mallet
- Support blocks (can be cut from scrap rail material)

**Installation Instructions:**

**INLINE RAILING**

Prior to construction, check with your local regulatory agency for special code requirements in your area. Common railing height is 36”. Structural support should come from either the continuation of deck support posts that extend up through the deck floor or from railing posts that are bolted to the inside of the rim or outer joist. **6’ on-center post spacing is recommended. Never span more than 8’ on-center between railing posts.**

**Step 1:** Measure railing opening, from post to post.

**Step 2:** Cut top and bottom rails (2x4s) to length and clamp together. Starting from the center of the rails, mark out 4-1/2” on-center using a tape measure or marked speed square. This will leave a 3-3/4” opening from baluster to baluster once the balusters are installed.

**Step 3:** Screw on Deckorators Estate baluster connectors (sold separately) on each mark.

**Step 4:** Place the bottom rail (2x4) on 3” blocks (2x4 scrap material works best) and attach to the post. For easy rail-to-post connection, we recommend using Deckorators railing connectors (sold separately). Put clear adhesive on each connector to properly secure balusters and prevent spinning. Insert balusters over baluster connectors.
**Step 5:** Place top rail (2x4) over balusters. Install cap rails for a finished look. For rail sections longer than 4 feet, support blocks are recommended. These can be made from leftover rail material. Properly position the support block and toe-nail it to the bottom rail and deck board.

**STAIR RAILING**

**Stairs:** Follow Step 1 and cut 2x4s to length with proper angle. With 2x4s laying flat, start from the center of the rails and mark every 5-1/2" on-center. Screw on Deckorators Estate baluster connectors with stair adaptors (sold separately) to complete your stair rail. The adaptor works for 30- to 35-degree angles. Screw bottom rail (2x4) to post. Contingent upon how your stairs railing are built, you may need to run bottom rail (2x4) down alongside of the stringer to get proper height. Proceed to Step 5 to complete your stair rails.
**Kit Contents:**

- 5 - Balusters for Arc and Baroque
- 10 - Balusters for Traditional
- 20 - Color-matched screws for Arc and Baroque
- 40 - Color-matched screws for Traditional
- 20 - Baluster end caps for Traditional (2.5 balusters required per linear foot of railing)

**Items You Will Need:**

- Drill driver
- Tape measure
- 2-pt. square head drill bit
- Safety glasses
- Carpenter’s pencil
- Clamps
- Support blocks (can be cut from scrap rail material)

**Installation Instructions:**

**INLINE RAILING**

Prior to construction, check with your local regulatory agency for special code requirements in your area. Common railing height is 36”. Structural support should come from either the continuation of deck support posts that extend up through the deck floor or from railing posts that are bolted to the inside of the rim or outer joist. 6’ on-center post spacing is recommended. Never span more than 8’ on-center between railing posts.

**Step 1:** Attach top and bottom rails to posts according to local building codes. The distance from the deck surface to the top of the rail is typically 36”. Use a baluster as a guide to determine placement of the bottom rail. Find the center of the top and bottom rails and mark. Rail length ÷ 2 = center of rail.

**Step 2:** The baluster spacing is 4-1/2” on-center and equal spacing for the end spacing. For posts set at 6’ on-center, attach the first two balusters 2-1/4” on-center each side of the center line using four of the screws provided. Use the plastic washers when using treated lumber, to prevent direct contact. Place the washer in between the rail and baluster. When using Traditional balusters, install the end caps on the hollow ends of each baluster prior to installing the balusters on the rail.

**Step 3:** Use a section of 2x4 to space the next baluster 3-1/2” from the first. Attach the rest of the balusters using the 2x4 as a spacer block. Cut two support blocks from the wood or composite railing material you’re using. Glue support blocks to the bottom of the lower rail an equal distance from each post.
STAIR RAILING

Step 1: Attach top and bottom stair rails to posts according to local building codes. The distance from the stair tread to the top of the rail is typically 36". Use a baluster as a guide to determine placement of the bottom rail. Find the center of the top and bottom rails and mark. Rail length ÷ 2 = center of rail.

Step 2: The baluster spacing is 4-1/2" on-center and equal spacing for the end spacing. For posts set at 6' on-center, attach the first two balusters 2-1/4" on-center each side of the center line using four of the screws provided. Use the plastic washers when using treated lumber, to prevent direct contact. Place the washer in between the rail and baluster.

Step 3: Use a section of 2x4 to space the next baluster 3-1/2" from the first. Attach the rest of the balusters using the 2x4 as a spacer block.

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SCENIC AND FROSTED GLASS BALUSTER-FACE MOUNT INSTALLATION INSTRUCTIONS

Kit Contents:

<table>
<thead>
<tr>
<th>Scenic Glass Balusters</th>
<th>OR</th>
<th>Frosted Glass Balusters</th>
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<tbody>
<tr>
<td>• 5 - Glass balusters</td>
<td></td>
<td>• 3 - Glass balusters</td>
</tr>
<tr>
<td>• 20 - Stainless steel screws</td>
<td></td>
<td>• 12 - Stainless steel screws</td>
</tr>
</tbody>
</table>

(You will need 1.5 balusters per linear foot of handrail.)

Items You Will Need:

- Drill driver
- Tape measure
- 2-pt. square head drill bit
- Safety glasses
- Carpenter’s pencil
- Clamps
- Support blocks (can be cut from scrap rail material)

Prior to installation, insert rubber grommets (included) into the pre-drilled glass baluster holes. When assembling screws, drive each screw until the rubber grommet begins to mushroom. Do not over-tighten.

Installation Instructions:

INLINE RAILING

Prior to construction, check with your local regulatory agency for special code requirements in your area. Common railing height is 36”. Structural support should come from either the continuation of deck support posts that extend up through the deck floor or from railing posts that are bolted to the inside of the rim or outer joist. 6’ on-center post spacing is recommended. Never span more than 8’ on-center between railing posts.

Step 1: Attach top and bottom rails to posts according to local building codes. The distance from the deck surface to the top of the rail is typically 36”. Use a baluster as a guide to determine placement of the bottom rail. Find the center of the top and bottom rails and mark. Rail length ÷ 2 = center of rail.

Step 2: Attach the first baluster on-center of the center line using four of the screws provided. Drive each screw until the rubber grommet begins to mushroom. Do not over-tighten.

Step 3: Use a section of 2x4 to space the next baluster 3-1/2” from the first. Attach the rest of the balusters using the 2x4 as a spacer block. Cut two support blocks from the wood or composite railing material you’re using. Glue support blocks to the bottom of the lower rail an equal distance from each post.
STAIR RAILING

**Step 1:** Attach top and bottom stair rails to posts according to local building codes. The distance from the front edge of the stair tread to the top of the rail is typically 36”. Use a baluster as a guide to determine placement of the bottom rail. Find the center of the top and bottom rails and mark. Rail length ÷ 2 = center of rail.

**Step 2:** Attach the first baluster on-center of the center line using four of the screws provided. Drive each screw until the rubber grommet begins to mushroom. Do not over-tighten.

**Step 3:** Use a section of 2x4 to space the next baluster 3-1/2” from the first. Attach the rest of the balusters using the 2x4 as a spacer block.
**SCENIC GLASS BALUSTER INSTALLATION INSTRUCTIONS (CONNECTORS)**

**Kit Contents:**
- 5 - Glass balusters
- 20 - Stainless steel screws
  (You will need 1.5 balusters per linear foot of handrail.)

**Items You Will Need:**
- Drill driver
- Tape measure
- 2-pt. square head drill bit
- Safety glasses
- Carpenter’s pencil
- Clamps
- Support blocks (can be cut from scrap rail material)
- Scenic baluster connectors (sold separately)
- Scenic baluster stair connectors (sold separately)

Prior to construction, check with your local regulatory agency for special code requirements in your area. Common railing height is 36” or 42”. Structural support should come from either the continuation of deck support posts that extend up through the deck floor or from railing posts that are bolted to the inside of the rim or outer joist. **6’ on-center spacing is recommended.** Never span more than 8’ between railing posts.

**Installation Instructions:**

**INLINE RAILING**

**Step 1:** Measure railing opening from post to post to determine the length of each rail section.

**Step 2:** Cut top and bottom rails to the proper length and clamp together. Locate the center of the rails and mark. If using an odd number of balusters, the balusters will start at the center of the rail. For Frontier Balusters: If using an even number of balusters, the balusters will start 3-3/4” either side of center, with all balusters 7-1/2” on-center. Mark both rails 7-1/2” on-center, starting from the desired location. For Contour Balusters: If using an even number of balusters, the balusters will start 3-1/4” either side of center, with all balusters 6-1/2” on-center. Mark both rails 6-1/2” on-center, starting from the desired location.*

**Step 3:** Screw on one Deckorators Scenic baluster connector (sold separately) on each mark, using the screws provided.

**Step 4:** Place the bottom rail between the rail posts, supported by a 3” block (2x4 scrap material works best). Secure rail to posts using Deckorators rail connectors (sold separately). Insert one Scenic Baluster into each baluster connector.

**Step 5:** Carefully place top rail over the balusters, making sure each baluster is seated properly in each baluster connector. Inspect finished railing for proper baluster spacing and secure top rail to posts. Attach support blocks to the bottom of the lower rail an equal distance from each post.
STAIR RAILING

**Step 6**: Follow Step 1 and cut top and bottom rails to length, with proper angle. Clamp together and mark top and bottom rails every 9" on-center.

**Step 7**: Deckorators Scenic baluster stair connectors (sold separately) are composed of two parts: the connector and the adaptor. To install, place the connector on the adaptor, being sure the groove in the connector matches up with the knobs on the adaptor. Position one connector and adaptor on each mark and attach to the rail using the screws provided. Scenic baluster stair connectors work for 35-degree stair angles.

**Step 8**: Attach bottom rail to post. Insert one Scenic Baluster into each baluster stair connector. Carefully place top rail over the balusters, and secure top rail to post.

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Installation

Post Caps
To attach each post cap style to the post, apply an exterior-grade silicone adhesive to the underside of the post cap and place firmly on the post (Figure 1).

Solar Post Caps
*Important: All solar panels within post caps and lights need 24 hours of direct sunlight to fully charge.*

To activate your new solar post cap:

**Step 1** Access the inside of the solar light by pressing inward on the side of the clear lens, grasping the edge of the top and lifting it off (Figure 2), or grasping the top and twisting counterclockwise.

**Step 2** Remove the plastic tab from the battery compartment to allow connection to the terminal. Ensure battery is firmly in place.

**Step 3** Replace top by snapping onto side panels or twist the top counterclockwise into place.

**Step 4** Your solar post cap light is now ready to be attached to your post (Figure 1).

Batteries are included with solar post caps but may not be installed. Ensure batteries are seated firmly in place when installed.

Solar Post Caps with Removable Solar Collector Unit

To activate:

**Step 1** Remove the solar panel by lifting it straight up from the top of the cap (Figure 3).

**Step 2** Remove the plastic tab from the battery compartment to allow connection to the terminal. Ensure battery is firmly in place (remove: switch is in “on” position - there is no on/off switch).

**Step 3** Replace the solar panel.

**Step 4** Your solar post cap light is now ready to be attached to your post (Figure 1).

Concealed Solar Post Caps

**Step 1** Access the inside of the solar light by grasping the top of the lens and twisting counterclockwise.

**Step 2** Grasp the internal solar collector unit, twist counterclockwise and lift up to access the battery compartment.

**Step 3** Remove the plastic tab from the battery compartment to allow connection to the terminal. Ensure battery is firmly in place.

**Step 4** Nouveau Concealed solar post caps come with a wood screw which can be used to attach the cap to the top of the wood post. Attach the cap to the wood post before replacing the solar panel battery compartment.

**Step 5** Replace the solar panel battery compartment by twisting clockwise.

**Step 6** Replace the lens by twisting clockwise into place.

Post and Stair Lights

**Step 1** Slide plastic lens back to separate from top portion.

**Step 2** Open battery compartment.

**Step 3** Remove the plastic tab from the battery compartment to allow connection to the terminal.

**Step 4** Ensure battery is firmly in place.

**Step 5** Attach bracket to post using screws included in package.

**Step 6** Slide the Post and Stair Light onto the bracket.
Decks and Dock Solar Lights

Step 1: Remove the exterior bottom cover using a regular screwdriver and remove the plastic tab to allow battery connection to the terminal.

Step 2: Reinstall the exterior bottom cover and tighten securely.

Step 3: Drill a 1-3/8” (35mm) hole in the desired location in your deck or stair tread and insert the solar deck and dock light into the hole.

Step 4: Light will need 24 hours to full charge.

Solar Post Caps

Our Solar Post Caps are among the unique, yet classic touches you can add to your outdoor project. By day, they add beauty to your deck. By night, they enhance your setting with a welcoming glow, without the hassles of wiring or electricity.

By installing a solar post cap light on your deck, you are contributing to a greener environment. Solar post caps get their energy from the sun, the Earth’s most available energy source. This helps offset greenhouse gases and reduces the need for dry-cell battery disposal. They are also economical: Keeping your deck illuminated with solar post caps will not increase your electric bill.

Looking for a softer glow? No need to illuminate all of your post caps. Batteries can be taken out of the post cap or the tab can be reinserted into the battery compartment to keep the light inactive. Keep in mind you will need to recharge batteries after reinserting them. Some post caps have on/off switches. Make sure the switch is in the “off” position if you don’t want a particular cap to illuminate.

Included with each of our solar post caps are LED light bulbs and rechargeable batteries. With normal use of 6 to 8 hours per day, our LED light bulbs will have an average life of 10 years. The rechargeable batteries will last an average of one year. They must be replaced with rechargeable batteries; using regular batteries in the sun will destroy the solar collector in the post cap.

Please note that our LED light bulbs are part of the whole solar cell component and are not designed to be replaced. If it is necessary to replace your light bulb or your solar collector, we have Solar Collector Replacement Units available.

(Contains nickel-cadmium rechargeable batteries. Battery must be recycled or disposed properly.)

Post Cap Care and Maintenance

Metal Post Caps

Our copper and stainless steel post caps come with a thin, clear marine lacquer designed to protect them before and during installation. Once exposed to the elements, the sun’s ultraviolet rays, moisture and pollution begin to break down this coating, exposing the metal underneath.

Copper

• In its natural state, copper breaks down in the elements and develops a patina. In general, copper progresses from a natural salmon color to a series of russet browns and grays, and finally to a blue-green or gray-green patina.

• To maintain the shiny look, apply a car wax immediately after purchasing the cap and reapply every 3 to 6 months.

• To remove an already tarnished finish, remove the old coating with mineral spirits and grade 0000 steel wool. Buff with grade 0000 steel wool for a satin finish. For a mirror-like finish, apply a car wax or spray with a clear lacquer or polyurethane and let dry, and then apply a car wax.

• To encourage a natural patina, remove the lacquer with mineral spirits and grade 0000 steel wool.

Stainless Steel

Stainless steel has a hard oxide coating, making it resistant to stains. To maintain this coating, clean periodically with a mixture of vinegar and club soda.

Black and White Post Caps

Our black and white post caps have a powder coated baked on finish that is extremely hard and durable, rarely requiring maintenance.

Wood Post Caps

As with all wood products, we recommend that you coat these with a high-quality exterior finish to preserve the wood’s natural beauty and ensure a lifetime of enjoyment. Apply to all wood areas, including the underside of the cap, before installation.

Glass Post Caps

Exposure to the elements may cause the filigree metal on your glass post cap to oxidize and lose its original color. Applying car wax before placing the post cap outdoors will help prevent the initial oxidation. Reapply the car wax every 3 to 6 months as needed.

Note: If your post cap has a wood base, apply a high quality exterior finish to all wood areas before installation. We recommend reapplying the finish annually to preserve the wood’s natural beauty and protect it from the elements.
SAFETY WARNING: TURN POWER SUPPLY OFF DURING INSTALLATION. IF NEW WIRING IS REQUIRED, CONSULT A QUALIFIED ELECTRICIAN OR LOCAL AUTHORITY FOR CODE REQUIREMENTS.

OPERATION NOTES:
1. This luminaire is designed to be operated with Deckorators approved 12 Volt AC systems or other 9-15 Volt DC systems.
2. Full range dim by using MLV-type dimmer control of the 120 VAC side of 12 VAC transformer. PWM dimmer may be used on output side of DC systems.

LUMINAIRE MOUNTING - POST CAP TOP:
1. Remove two (2) set screws from base of luminaire with hex wrench provided.
2. Install base casting on desired post and secure to post wall by tightening two (2) Philips screws at opposite sides.
3. Route wiring into post and secure top casting assembly to base casting using the previously removed two (2) set screws.

LUMINAIRE WIRING:
1. To prevent electrical shock, disconnect transformer from electrical supply before installation or service.
2. Run wire to bottom of post according to local building practices.
3. Strip the two wire leads from the luminaire and connect to the main supply wire using the wirenuts. Fill wirenuts with appropriate silicone to waterproof. (Consult wiring instructions from the transformer or power supply.)
OPERATION NOTES:
1. This luminaire is designed to be operated with Deckorators approved 12 Volt AC systems or other 9-15 Volt DC systems.
2. Full range dim by using MLV-type dimmer control of the 120 VAC side of 12 VAC transformer. PWM dimmer may be used on output side of DC systems.

ADDITIONAL INFORMATION
• Dry and damp location installs may be done without an electrical box. 1-5/8" High x 2-7/8" Long rectangular cutout is required.
• A low voltage Class 2 switch box may be used for dry and damp location installs.
• A full electrical switch box is required for wet location installs - FS/FD type surface boxes are too large for the supplied cover to sufficiently seal.

WIRING (PRIOR TO INSTALLATION):
1. Fixture is to be fed from transformer wire as shown in Drawing 1.

DRY AND DAMP LOCATION APPLICATION
NOTE: For a dry location application the gasket is not required, if installing in a wet location please proceed to Wet Location Application instructions.

1. Line up the LED enclosure (L), and cover bracket (CB) over the outlet box (B) and affix with mounting screws (MS) - Drawing 2. If mounting without box, replace mounting screws (MS) with other suitable fasteners. For Damp location, use gasket as shown in Drawing 3.

2. Once attached to the outlet box, attach the cover plate (CP) by angling the plate at 45 degrees until the underside lip of the cover plate hooks onto the cover bracket and tighten screw (CS) to fix the cover plate in place.

WET LOCATION APPLICATION
*** For Wet Location installation the gasket material is REQUIRED to prevent damage to the fixture.

1. When affixing the fixture it is extremely important that you align the parts in the following order:

   LED encloser (L) --> Gasket (G) --> Cover Bracket (CB)

2. Once attached to the mounting surface, attach the cover plate (CP) by angling the plate at 45 degrees until the underside lip of the cover plate hooks onto the cover bracket and tighten screw to fix the cover plate in place.

NOTE: Make sure the cut corner hole on the cover plate is in the bottom half of the fixture.
Luna Step Light Outdoor Junction Box - Installation Tips

1. Standard Electrical Boxes work the best.
2. Silicone around the cover plate on the top and the sides.
3. Avoid FS or FD electrical boxes.
4. Try to get the electrical box to be flush with the mounting surface. The offset or inset is limited to ± 1/8" as long as there is silicone on the top and side edges of the cover plate as stated in 2.

Luna Step Light Installation Without A Box - Cut Out Template

*Cut 1-5/8” Deep
SAFETY WARNING: TURN POWER SUPPLY OFF DURING INSTALLATION. IF NEW WIRING IS REQUIRED, CONSULT A QUALIFIED ELECTRICIAN OR LOCAL AUTHORITY FOR CODE REQUIREMENTS.

OPERATION NOTES:
1. This luminaire is designed to be operated with Deckorators approved 12 Volt AC systems or other 9-15 Volt DC systems.
2. Full range dim by using MLV-type dimmer control of the 120 VAC side of 12 VAC transformer. PWM dimmer may be used on output side of DC systems.

LUMINAIRE MOUNTING - DIRECT SURFACE MOUNT:
1. Locate desired position for the luminaire. Use template provided to drill the 2 mounting holes for the backplate.
2. Use provided screws to secure backplate.

LUMINAIRE WIRING:
1. To prevent electrical shock, disconnect transformer from electrical supply before installation or service.
2. Run wire to luminaire according to local building practices before installation.
3. Use template provided to drill a hole to route the wires.
4. Strip the two wire leads from the luminaire and connect to the main supply wire using the wirenuts. Fill wirenuts with appropriate silicone to waterproof. (Consult wiring instructions from the transformer or power supply).

COVER INSTALLATION:
1. Align notch at the top of the cover with the slot in the backplate.
2. Push bottom of the cover down to snap into place.

FOR WET LOCATION USE
Silicone around the top and sides of the cover to waterproof the assembly.
SAFETY WARNING: TURN POWER SUPPLY OFF DURING INSTALLATION. IF NEW WIRING IS REQUIRED, CONSULT A QUALIFIED ELECTRICIAN OR LOCAL AUTHORITY FOR CODE REQUIREMENTS.

OPERATION NOTES:
1. This luminaire is designed to be operated with Deckorators approved 12 Volt AC systems or other 9-15 Volt DC systems.
2. Full range dim by using MLV-type dimmer control of the 120 VAC side of 12 VAC transformer. PWM dimmer may be used on output side of DC systems.

LUMINAIRE MOUNTING:
1. Using Template, locate and drill two (2) holes using 3/32" drill bit.
2. Install base using two (2) pan head wood screws.
3. Route wiring under fixture down post or drill 1/4" hole immediately under fixture to route wire within hollow post
4. Slide cover onto base and lower to lock in place.

LUMINAIRE WIRING:
1. To prevent electrical shock, disconnect transformer from electrical supply before installation or service.
2. Run wire to bottom of post according to local building practices.
3. Strip the two wire leads from the luminaire and connect to the main supply wire using the wirenuts. Fill wirenuts with appropriate silicone to waterproof. (Consult wiring instructions from the transformer or power supply).
SAFETY WARNING: TURN POWER SUPPLY OFF DURING INSTALLATION. IF NEW WIRING IS REQUIRED, CONSULT A QUALIFIED ELECTRICIAN OR LOCAL AUTHORITY FOR CODE REQUIREMENTS.

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2. Run wire to bottom of post according to local building practices.
3. Strip the two wire leads from the luminaire and connect to the main supply wire using the wirenuts. Fill wirenuts with appropriate silicone to waterproof. (Consult wiring instructions from the transformer or power supply).
Introduction

Carefully plan your entire deck, from deck boards to rails and stairs, before cutting your first board or drilling your first hole. Account for the unique design and dimensions of Deckorators® postcovers and your chosen rail system in the planning stage. Inventory all necessary postcovers and associated rail connectors and fasteners at the job site, before getting started. For installations over 4x4 nominal wood posts, you will need (2) 2x4-pieces of treated or cedar lumber per in-line rail postcover and (4) 2x4 pieces of treated or cedar lumber per corner rail postcover. The length of the 2x4 depends on the height of the postcover. 42” postcovers require 41” high 2x4s and the 53” requires 52” high pieces.

Items you may need to complete the installation:
- Exterior masonry adhesive (epoxy or silicone caulk)
- Wood shims
- Drill
- 1/8” Masonry drill bit
- Saw (if trimming is required)
- Diamond masonry blade (if trimming is required)
- Carpenter’s pencil
- 100 grit coarse aluminum oxide sandpaper
- 2x4s as required (see introduction section)
- 2-1/2” wood deck screws as required
- #8 x 3-1/2” exterior grade screws* (2 per rail bracket)
- Safety glasses

Step 1 • Secure 4x4 or 6x6 nominal treated or cedar wood posts

A The deck design will dictate how you install and secure the deck posts. Be sure the post extends 41 inches above the deck surface to ensure a proper fit with the 42” postcover and 52” above the deck for a proper fit with the 53” postcover.

B Posts should be installed on the inside of the deck frame, to allow the postcover to rest entirely on the decking.

Note: Use a saw with a diamond masonry blade if trimming of the postcover is required. Always trim the bottom of the postcover, which is the side without the lip.

Step 2 • Install postcover

C A 6x6 S4S (smooth four sides) wood post can vary from 5-1/4” to 5-5/8” in thickness and may be subject to slight irregularities. Use wood shims at the top and bottom of the post to ensure a snug fit. Shim the bottom and slide the postcover over the post to the deck base.

D Shim the top of the post for a tight, level fit. It is important to shim evenly on all four sides so the post remains centered within the postcover.

E If the installation is over a 4x4 nominal wood post, then wood 2x4s will need to be added to the sides of the 4x4 post. The number of 2x4s differs based on the location of the wood posts. You will need (2) 2x4-pieces of lumber per in-line rail postcover and (4) 2x4 pieces of lumber per corner rail postcover. The length of the 2x4 depends on the height of the postcover. 42” postcovers require 41” high 2x4s and the 53” requires 52” high pieces. For in-line rail posts, attach the 2x4s to the sides of the wood post where the connector and railing will be installed using 2-1/2” wood deck screws. For corner posts, install 2x4s to all four sides of the post using 2-1/2” wood deck screws.
Step 3 • Build rail section

F Deckorators Postcovers can be used with wood, composite material or vinyl rail sections. Rail connectors (sold separately) allow for trouble-free 2x4 rail installation of 90-degree, 22.5-degree and 45-degree rail angles, and 35-degree stair angles.

If installing any railing besides a 2x4, use the connectors provided with the railing.

Build your first rail section to use as a template, before adding the rail connectors to the postcovers.

Step 4 • Rail connector placement

G Before you install the rail connectors, you must first mark the center of the postcover. To do this, make a vertical mark on the postcover using a carpenter’s pencil.

H Lift the rail section into place and line it up with the vertical mark on the postcover. Make sure it is level and plumb, and mark where the rail connectors should go.

Step 5 • Install rail connectors

I Hold the connectors up to the postcover in their proper location, mark the connector holes and pre-drill using a 1/8” masonry drill bit.

J Fasten the connectors to the postcover and wood post using #8 x 3-1/2” exterior grade screws* (sold separately). The screws MUST be attached to the wood post for proper structural support.

The postcover is for decorative use only. Although the postcover finish was designed with rail connectors in mind, some sanding may be required for a perfectly plumb installation. Simply sand the uneven spot within the location of the connector bracket using 100 grit coarse aluminum oxide sandpaper.

Step 6 • Finish the job

K To complete the first rail section installation, drill holes and install connectors on the other side.

L Cut rails to fit and place them as you go. Secure rails to connectors with the screws provided. Finish deck railing.

M If using postcover post caps, use a strong exterior masonry adhesive to secure post cap to the postcover.

Note: If any chips or blemishes have occurred to the finish of the postcover due to mishandling, they can be touched up using Deckorators postcover touch up kits, sold separately.

* Screw must be compliant with ANSI/ASME Standard B18.6.1-1981 with a yield strength of 90,000 psi.
Two Piece Stone Postcover Installation Instructions

Designed to be placed around an already installed 4x4 or 6x6 post.

Additional Tools:
Large clamp with padding or adjustable strapping

- The 4x4 or 6x6 post can be shimmed in the same way as the one piece post cover.
- Position one half of the stone post cover into place around the post. Modify shims as needed for a secure fit.
- Apply a bead of concrete adhesive to the edge of the first half, where the two halves meet, according to the directions on the concrete adhesive.
- Slide the second half of the post cover into place around the post. Press firmly into place.
- Remove any excess adhesive from the outside of the post cover.
- Hold the two sides together using two padded clamps or adjustable straps for the time recommended on the concrete adhesive.

If installing a second stone post cover on top of the first:

- Measure the distance from the top of the lower post cover to the top of the available space and cut the upper stone post cover to the desired height.
- Apply a bead of concrete adhesive to the top edge of the lower post cover, and according to the directions on the concrete adhesive.
- Place half of the upper post cover on top of the lower one. Align with the bottom post cover and press firmly into place. Apply a bead of concrete adhesive to the edge of the first half, where the two halves meet. Slide the second half of the upper post cover into place around the post. Align with the bottom post cover and press firmly into place.
- Remove any excess adhesive from the outside of the post cover.
- Hold the two sides together using two padded clamps or adjustable straps for the time recommended on the concrete adhesive.

If installing a two piece post cap on top of the bottom post cover and around a post:

- Choose the appropriate post cap for the size of your post: nominal 4x4 or 6x6.
- Apply a bead of concrete adhesive to the top edge of the lower post cover, to the edge of the post cap where the two halves meet, and according to the directions on the concrete adhesive.
- Place the two halves of the post cap around the post so that they interlock, and press down firmly. Remove any excess adhesive. Use a padded clamp or strap to hold in place necessary. Apply a bead of clear caulk to fill any gaps between the post cap and the post.
Installation Tips

- Deckorators plastic lattice can be cut and drilled using standard tools.
- Use rustproof or rust-resistant fasteners to maintain the beauty of your project over time.
- For a distinguished look, frame panels with plastic caps and connect panels with plastic dividers (fig. 1).
- Always allow a 1/4" gap between the lattice edge and moulding for the panel to expand and contract with temperature changes (fig. 2).
- Lattice must be attached to a self-supporting structure or frame. Suspend lattice from top row of fasteners.
- Along the top, predrill oversized holes every two feet through both the moulding and lattice with a 1/4" drill bit and fasten with screws. Do not overtighten screws.
- Along the sides and bottom, predrill oversized holes every two feet through the moulding only and fasten with screws. DO NOT overtighten screws (fig. 3).
- DO NOT install lattice in a horizontal application. Without proper support, lattice will be prone to sagging, rippling and heat retention.

Finishing

Deckorators lattice is a nonporous material. Coatings such as paints and stains do not adhere well to the surface.

Plastic Lattice Painting Tips

**Materials Needed**

- Aerosol paint
- Plastic lattice sheet

**STEP 1**

Clean the surface of the paintable plastic lattice sheet with a solution of warm water and dish soap.

Rinse and allow to dry.

**STEP 2**

Apply two thin coats of primer for plastic over the entire surface, as instructed on the can. Allow to dry between coats. Paint for plastic can be used without primer per product instructions.

**STEP 3**

Once dry, apply a thin coat of any aerosol paint over the entire surface, per product directions. Allow to dry as directed.

**STEP 4**

Apply a second coat of aerosol paint over entire lattice sheet. Allow to dry as directed.

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This information is given in good faith, without warranty and for guidance purposes only, since the nature and quality of the paint or primer purchased by consumer is out of UFP’s control. Under no circumstances should these instructions be followed if they are contrary to the instructions or advice of the primer or paint manufacturer.
ELIGIBILITY
UFP Warranty Corporation (the “Warrantor”) is pleased to extend this Warranty to you, the original Consumer of the Deckorators product. This Warranty is valid for original Consumers of Deckorators Decking, Porch Flooring and Composite Railing material used in standard single family residential dwellings and may not be assigned or transferred by you. This Warranty only applies to product purchased and installed in the United States or Canada.

25-YEAR STRUCTURAL LIMITED WARRANTY
Warrantor will, at its option, either replace or refund the appropriate prorated portion of the purchase price as set forth in the “Prorated Refund Schedule” below for any Deckorators Decking, Porch Flooring or Composite Railing product used in a residential decking, porch flooring or railing application that splinters, corrodes or becomes structurally unfit due to rot, warp, cupping, checks or damage caused by termites or fungal decay within 25 years from the date of purchase.

25-YEAR LIMITED WARRANTY – STAIN RESISTANCE
Warrantor will, at its option, either replace or refund the appropriate prorated portion of the purchase price as set forth in the “Prorated Refund Schedule” below for any Deckorators Decking, Porch Flooring or Composite Railing product used in a residential decking or railing application that exhibits permanent staining in the first 25 years from the date of purchase when exposed to food and beverage spills, including wine, tea, coffee, fruit punch, sodas, catsup, salad oils, barbeque sauces, mustard and other food- or beverage-related items that would typically be present on a residential deck or porch. This Warranty will only apply if an attempt is made by Consumer to remove any such spill from the decking material with water and mild household cleaners within forty-eight (48) hours of exposure to the surface, and such attempt is unsuccessful. Staining as a result of spilled abrasive compounds of acidic or basic pH, strong solvents, oil-based paints or stains, metallic rust and other abnormal items not commonly used on a residential deck are not covered under this Warranty.

25-YEAR LIMITED WARRANTY – FADE RESISTANCE
Warrantor will, at its option, either replace or refund the appropriate prorated portion of the purchase price as set forth in the “Prorated Refund Schedule” below for any Deckorators Decking, Porch Flooring or Composite Railing product used in a residential decking or railing application that exhibits “Excessive Color Fade” within the first 25 years from the date of purchase. Excessive Color Fade is defined as a change in color greater than five (5) Delta E (CIE) when calculated according to ASTM D2244 for all non-variegated color surfaces. Excessive Color Fade for variegated color surfaces is defined as an unreasonable amount of color change in excess of “Normal Weathering.”

25-YEAR REMOVAL AND REPLACEMENT WARRANTY
If a Deckorators Decking, Porch Flooring or Composite Railing product is proven to be defective and eligible for replacement or refund under the terms of this Warranty and was installed in strict accordance with the installation instructions, Warrantor will provide, in addition to replacement product or a prorated refund of the purchase price, a prorated portion of the reasonable and customary costs associated with installing replacement products, including removal and disposal of defective products (“Replacement Costs”). Replacement Costs will be prorated as set forth in the “Prorated Refund Schedule” and based off of the reasonable and customary Replacement Costs on the date of the original purchase. This amount shall not be adjusted for inflation. Replacement Costs shall not include the cost of permits required or obtained in connection with installing replacement products.

LIMITATIONS ON WARRANTY
Structural Limitations: ONLY Deckorators Frontier and Vault decking and Deckorators Porch Flooring material, manufactured with Evolutions™ technology, may be installed in contact with the ground or submersion in water when a project design requires those conditions.

Stain Limitations: The Deckorators Decking, Porch Flooring and Composite Railing products are not stain-proof. Care must be taken to remove all food, beverage and other spilled materials with water and a mild household cleaner within forty-eight (48) hours of exposure. Stains resulting from spilled abrasive compounds of acidic or basic pH, strong solvents, oil-based paints or stains, metallic rust and other abnormal items not commonly used on a residential deck are excluded from coverage under this Warranty; Excluded stains include but are not limited to pet or human bodily fluids such as blood, vomit, urine or feces, and fungicides, bactericides, biocides and chemical-based plant food. Mold and mildew can settle and grow on any outdoor surface and, if not properly cleaned, can stain that surface. Staining associated with mold or mildew that is not properly cleaned within one week of first appearance is not covered under this Warranty. If stains persist, you will be required to produce documentation that you attempted to have the deck professionally cleaned at least one time prior to making a claim under this Warranty.

Fade Limitations: No decking or porch flooring material is fade-proof when exposed to sunlight and other common atmospheric conditions. Normal Weathering is to be expected over the life of the product and is not covered under this Warranty. Normal Weathering is defined as exposure to sunlight and extremes of weather and atmosphere that will cause any colored surface to gradually fade, chalk, or accumulate dirt or stains. Warrantor shall not be liable for any incidental or consequential damages arising out of the use or ownership of this product. Some states do not allow limitations on how long an implied Warranty lasts and/or do not allow the exclusion of incidental or
consequential damages, so the above limitations and exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

This Warranty does not cover any product that:

• Is damaged by physical abuse, acts of God, acts of war, or other chemical or biological factors.
• Has not been installed in accordance with the manufacturer’s installation guidelines and local building codes.
• Has been abused, placed under or subjected to abnormal residential-use conditions or has surface damage or surface punctures.
• Has been painted, coated, used, modified or otherwise treated in any manner other than as intended by Warrantor.
• Has been directly or indirectly exposed to extreme heat (in excess of 250 degrees Fahrenheit).

Failure to follow any restrictions or warnings supplied with the product shall make the Warranty null and void and of no further effect. Warrantor reserves the right to investigate any claim and to inspect the materials for which a claim is made. Proper installation is a condition to coverage under this warranty. Warrantor shall be allowed the opportunity to inspect the materials in their installed condition to determine whether or not the materials were properly installed. Disassembly of the materials prior to inspection by warrantor shall make the warranty null and void. Any construction or use of this product must be in accordance with all local zoning and/or building codes. The Consumer assumes all risk and liability associated with the construction or use of this product. The Consumer or contractor should take all necessary steps to ensure the safety of everyone involved in the project, including, but not limited to, wearing the appropriate safety equipment.

CLAIM PROCEDURE
To make a claim under this Warranty, the Consumer must, within ninety (90) days of actual or constructive notice of damage covered by this Warranty, do the following:

1. Prepare a letter that includes the following information:
   • A list of the number of pieces and the size of each piece for which the claim is made.
   • Proof of Purchase of the product, as shown on the original invoice or receipt.
   • Proof of Warranty, as evidenced by the original UPC or end-tag from the product, or a copy of the mark on the product.

2. Mail the above information to: UFP Warranty Corporation
   2801 East Beltline NE
   Grand Rapids, MI 49525

PRORATED REFUND SCHEDULE

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<thead>
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<th>Years since purchase</th>
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ELIGIBILITY
Deckorators, Inc. (the “Warrantor”) is pleased to extend this Warranty to you, the original consumer or end user (the “Consumer”) of the Deckorators product. This Warranty is valid for Deckorators ALX Railings, Aluminum Balusters and Scenic (tempered glass) Balusters (“Railing Product”) used in standard residential applications in the United States and Canada, and may not be assigned or transferred by you.

LIFETIME LIMITED WARRANTY AND TEN-YEAR SALT WATER APPLICATIONS LIMITED WARRANTY
Warrantor, at its sole option, will replace or refund the original purchase price for any Deckorators ALX Railings used in a decking/railing application where the coated surface chips, cracks, checks, chalks or peels. Warrantor will also, at its sole option, replace or refund the original purchase price for any manufacturing defects in any tempered glass material or aluminum extrusion for your Deckorators ALX Railings used in a decking/railing application. Installations located within one (1) mile of coastal salt water are limited to the first ten years from date of purchase.

Warrantor shall have no further liability or obligation except as expressly stated herein. If a claim is made under this Warranty on a product that is no longer available, Warrantor reserves the right to provide a similar product of equivalent quality and value.

TWENTY-FIVE-YEAR REMOVAL AND REPLACEMENT WARRANTY
If a Railing Product is proven to be defective and eligible for replacement or refund under the terms of this Warranty and was installed in strict accordance with the installation instructions, Warrantor will provide, in addition to replacement product or a refund of the original purchase price, a prorated portion of the reasonable and customary costs associated with installing replacement products, including removal and disposal of defective products (“Replacement Costs”). Replacement Costs will be prorated as set forth in the “Prorated Refund Schedule” and based off of the reasonable and customary Replacement Costs on the date of the original purchase. This amount shall not be adjusted for inflation. Replacement Costs shall not include the cost of freight and permits required or obtained in connection with installing replacement products.

Prorated Removal and Replacement Refund Schedule

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<th>Years Since Purchase</th>
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<tbody>
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</tr>
<tr>
<td>Years 11 - 14</td>
<td>60%</td>
</tr>
<tr>
<td>Years 15 - 18</td>
<td>40%</td>
</tr>
<tr>
<td>Years 19 - 21</td>
<td>20%</td>
</tr>
<tr>
<td>Years 22 - 25</td>
<td>10%</td>
</tr>
</tbody>
</table>

Salt Water Prorated Removal and Replacement Refund Schedule
(Railing Product installed within one mile of coastal salt water)

<table>
<thead>
<tr>
<th>Years Since Purchase</th>
<th>% Purchase Price Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Years 1 - 2</td>
<td>100%</td>
</tr>
<tr>
<td>Years 3 - 4</td>
<td>80%</td>
</tr>
<tr>
<td>Years 5 - 6</td>
<td>60%</td>
</tr>
<tr>
<td>Years 7 - 8</td>
<td>40%</td>
</tr>
<tr>
<td>Year 9</td>
<td>20%</td>
</tr>
<tr>
<td>Year 10</td>
<td>10%</td>
</tr>
</tbody>
</table>

LIMITATIONS ON WARRANTY
The Warranty does not apply to any product that:
- Is damaged by physical abuse, acts of God, acts of war, exposure to acid rain, abrasive elements (including sand abrasion) or other chemical or biological factors.
- Has not been installed or maintained in accordance with Warrantor’s installation and maintenance instructions.
- Has been abused or placed under or subjected to abnormal residential use conditions.
- Has been used, modified or otherwise treated in any manner other than as intended by Warrantor.
- Has been stored improperly prior to installation, resulting in excess exposure to moisture.
- Has been subjected to welding, bending, drilling, cutting or other fabrication not called for in Warrantor’s installation guidelines.
- Has been exposed to a corrosive environment, including the use of adhesive tapes, sealants or mastics in direct contact with the coated product.
- Railing Product installed within one (1) mile of any coastal salt water must be regularly cleaned in strict accordance with the guidelines and frequency of Deckorators Care and Cleaning guidelines, and a log kept recording such cleanings.
ALX Railing and Baluster Limited Warranty

Failure to follow any restrictions or warnings supplied with the Railing Product shall make the Warranty null and void and of no further effect. Warrantor reserves the right to investigate any claim and to inspect any product, as installed prior to disassembly or demolition, for which a claim is made. Any construction or use of this product must be in accordance with all local zoning and/or building codes. The Consumer assumes all risk and liability associated with the installation or use of this product.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

WARRANTOR SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR OWNERSHIP OF THIS PRODUCT. The limited warranties expressly provided in this document are the only warranties given on the Product and are in lieu of all other warranties, and Deckorators expressly disclaims all other warranties of any kind, whether express or implied, including without limitation, the implied warranties of merchantability and fitness for a particular purpose or intended use. Purchase and installation of the Railing Product is acceptance of the terms of this Warranty.

CLAIM PROCEDURE
To make a claim under this Warranty to receive replacement product, the original owner must, within 90 days of actual or constructive notice of damage covered by this Warranty, do the following:

1. Prepare a letter that includes the following information:
   • A list of the number of pieces and the size of each piece for which the claim is made.
   • Proof of Purchase of the product, as shown on the original invoice.
   • Proof of Warranty, as evidenced by the original product label, or a copy of the mark on the product.

2. Mail the above information to:
   UFP Warranty Corporation
   2801 East Beltline NE
   Grand Rapids, MI 49525

THERE ARE NO OTHER WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. WARRANTOR DOES NOT MAKE ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR A PARTICULAR PURPOSE.
POSTCOVERS
15-year Limited Warranty. During the limited warranty period, Warrantor, at its sole option, will replace or refund a prorated portion of the purchase price for any Deckorators postcovers that exhibits a defect in material or workmanship in the form of splitting, rusting, cracking, or corrosion. The Warranty does not cover costs of installation, removal or reinstallation. Warrantor’s sole obligation is limited to a prorated refund or replacement of the Deckorators postcover, and Warrantor shall have no further liability or obligation except as expressly stated herein. If a claim is made under this Warranty on a product that is no longer available, Warrantor reserve right to provide a similar product of equivalent quality and value. For complete warranty, please visit http://www.dekorators.com/.

POST CAPS
Limited Warranty. Warrantor will repair or replace any Post Cap that exhibits defects in material or workmanship, for all but the Solar Light Components in a solar post cap, for a period of two years following date of purchase. Warrantor will repair or replace any Post Cap that exhibits defects in materials or workmanship in the Solar Light Components for a period of one year following date of purchase. Solar Light Components includes the solar panel, the low voltage solar cell and the L.E.D. light bulb. This Warranty does not cover the rechargeable battery. This Warranty does not cover cost of installation, removal or reinstallation. Warrantor’s sole obligation is limited to repair or replacement, and Warrantor shall have no further liability or obligation except as expressly stated herein. If a claim is made under this Warranty on a product that is no longer available, Warrantor reserves the right to provide a similar product of equivalent quality and value. For complete warranty, please visit http://www.dekorators.com/.
LOW VOLTAGE
Limited Warranty. Warrantor’s warranty obligation for Deckorators Recessed Lighting Kit is valid only for the standard application and use for which these products are intended. Warrantor, at its sole option, will repair or replace any Deckorators Recessed Lighting Kits used in a decking/railing application where the Product exhibits defects in materials or workmanship within five (5) years following the date of purchase. Warrantor’s warranty obligation for the Deckorators Transformer is valid only for the standard application and use for which this product is intended. Warrantor, at its sole option, will repair or replace any Deckorators Transformer used in a deck/railing application where the Product exhibits defects in materials or workmanship within three (3) years following the date of purchase. This Warranty does not cover cost of installation, removal or reinstallation. Warrantor’s sole obligation is limited to a replacement of the Product, and Warrantor shall have no further liability or obligation except as expressly stated herein. If a claim is made under this Warranty on a product that is no longer available, Warrantor reserves the right to substitute replacement with a similar product of equivalent quality and value at Warrantor’s discretion.
For complete warranty – please visit http://www.deckorators.com/

LATTICE
Lifetime Limited Warranty. Warrantor’s warranty obligation for the Product is valid only for the standard residential application and use for which the Product is intended. When installed vertically according to UCP instructions and under normal proper use, the Product will uniformly maintain its color and will not peel, pit, rot, blister, warp, crack, corrode or be consumed by insects. Warrantor, at its sole option, will repair or replace any Dimensions Plastic Lattice used in a standard residential application where the Product exhibits defects or degradations in materials or workmanship following the date of purchase. This Warranty does not cover costs of installation, removal or reinstallation. Warrantor’s sole obligation is limited to a replacement of the Product, and Warrantor shall have no further liability or obligation except as expressly stated herein. If a claim is made under this Warranty on a product that is no longer available, Warrantor reserves the right to substitute replacement with a similar product of equivalent quality and value at Warrantor’s discretion.
For complete warranty – please visit http://www.deckorators.com/
THE ACTUAL LUMINOSITY OF THE SOLAR AND LIGHTED PRODUCTS MAY VARY FROM THE IMAGES SHOWN.

THE COLORS REPRESENTED HEREIN ARE REPRODUCED WITH PRINTER'S INKS AND MAY VARY FROM ACTUAL FACTORY PRODUCTS. FOR ACTUAL PRODUCT COLORS AND FINISHES, PLEASE VISIT YOUR DECKORATORS DEALER.