# TECH GUIDE

Q.



2019 TECHNICAL GUIDE

DECKING • RAILING • BALUSTERS • ACCESSORIES • POST CAPS • LIGHTING • LATTICE • PORCH

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## 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 2019 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
- $\cdot$  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.



#### CABLE RAILING - HOW TO BUY



STEP 1 - CHOOSE YOUR RAILING (bottom railing optional):
Purchase (1) rail kit per 6' or 8' section.* NOTE: Cable can extend up to 30' and turn one
corner. Hardware packs include: 2 Eye lags, 1 fork jaw and 1 turnbuckle.
ALX Pro (Include cap rail to cover predrilled holes)
STEP 2 - HARDWARE
Purchase 10-packs for a 36" rail height or 12-packs for a 42" rail height.
Cable Rail Hardware
STEP 3 - CABLE
100' Cable Spool
500' Cable Spool
STEP 4 - SUPPORT
1 required for a 6ft section, 2 required for an 8ft section.
Cable Spacer
STEP 5 - POST PROTECTORS
Post protectors are required for turning corners – sold in packs of 10
Post Protectors
STEP 6 – CHOOSE YOUR POST SLEEVE KITS
For Aluminum railings:
40-1/4" Post Sleeves (for 36" rail)
52" Post Sleeves (for 42" rail)
STEP 7 - CHOOSE YOUR POST CAPS
Purchase (1) post cap per post sleeve.

Many options available. Check Deckorators.com for details.

## DECKORATORS ALX CLASSIC RAILING - HOW TO BUY







Baluster Colors

STEP 1 - CHOOSE YOUR RAILING	
ALX CLASSIC RAIL LINE KIT - Purchase (1) kit per 6' or 8' in-line rail section. Hardware included.*	Available Colors
6' ALX Classic rail line kit	satin black, matte black and textured white
8' ALX Classic rail line kit	
* To create stair rails, you will need to purchase (2) stair bracket kits per stair rail.	
STEP 2 - CHOOSE YOUR BALUSTERS	
ALUMINUM BALUSTERS – Purchase (1.5) 10-packs per 6' rail or (2) 10-packs per 8' rail. Connectors not included. Balusters must be trimmed to meet desired rail height.	Available Colors
32" Classic (for 36" line rail) – 10-pack	black because motto black
36" Classic (for 42" line rail) – 10-pack	textured gray and weathered brown
32" Estate (for 36" line rail) – 10-pack	tentares gray and recentres a.
STEP 3 - SELECT YOUR CORRESPONDING BALUSTER CONNECTOR	S
ALUMINUM BALUSTER CONNECTORS – Purchase (1) 20-pack per (1) baluster pack. (Add stair adaptors as needed).	Available Colors
Baluster Connectors – 20-pack (use with Classic Balusters)	black, white and gray
Stair Connectors – 20-pack (use with Classic Balusters) (set at 35')	black, white, bronze, gray and brown
Designer Baluster Connectors – 20-pack (use with Classic Balusters)	black, white and bronze
Designer Baluster Stair Adaptors – 20-pack (use with Classic Balusters) (set at 35')	black
Standard Estate Baluster Connectors – 20-pack (use with Estate Balusters)	black and white
Standard Estate Stair Connectors – 20-pack (use with Estate Balusters) (set at 35")	black, white and brown
Designer Estate Baluster Connectors – 20-pack (use with Estate Balusters)	black, bronze and white
Designer Estate Stair Adaptors - 20-pack (use with Estate Balusters) (set at 35")	black and bronze
STEP 4 - CHOOSE YOUR ALUMINUM POST KITS	
4x4 ALUMINUM POST KITS – Purchase (1) post kit per railing kit plus (1) to end each run. Trim and post cap included.	Available Colors
39" Aluminum Post Kit (for 36" rail)	
44" Aluminum Post Kit (for 42" rail)	satin black matte black and textured white
49" Aluminum Post Kit (for 42" rail or 36" stair rail)	saun black, matte black and textured minte
59" Aluminum Post Kit (for 42" stair rail)	
STEP 5 - CHOOSE YOUR OPTIONAL, ALTERNATIVE POST CAPS	
ALUMINUM BASE POST CAPS - Purchase (1) optional, alternative post cap per post if desired.	Available Colors
2.5" Solar Post Cap	black and white
ALX Nouveau Solar Post Cap	

## DECKORATORS ALX PRO ALUMINUM RAILING WITH CENTER MOUNT BALUSTERS - HOW TO BUY

**Railing Colors** 







STEP 1 - CHOOSE YOUR RAILING	
ALX PRO RAIL KITS – Purchase (1) rail kit per 6' or 8' section.*	Available Colors
6' Rail kit with brackets	black and white
8' Rail kit with brackets	
CAP RAIL KITS (optional) – Purchase (1) cap rail kit per 6' or 8' rail section.	Available Colors
6' Cap rail kit with insert rail	black and white
Cap rail kit with insert rail     To create stair rails, you will need to purchase (2) stair bracket kits per stair rail	
STEP 2 - CHOOSE FOUR BALOSTERS (CENTER MOONT)	
ALUMINUM BALUSTERS – Purchase (1.5) 10-packs per 6' rail or (2) 10-packs per 8' rail.	Available Colors
26" Classic (for 36" line rail) – 10-pack	black, matte black, bronze, textured gray, white,
32" Classic (for 42" line rail) = 10-pack	textured white and weathered brown
30° Classic (for 40° line rall) – 10-pack	black matte black brooze textured grav
32" Estate (for 42" line rail) = 10-pack	white, textured white and weathered brown
GLASS RALLISTERS - Purchase (2) 5 packs per 6' rail OR (2.5) 5 packs per 9' rail	Available Styles
26" Clear Scenic Glass (for 36") – 5-pack	Available Styles
32" Clear Scenic Glass (for 42") – 5-pack (screws included)	Frontier
STEP 3 - SELECT YOUR CORRESPONDING BALUSTER CONNECTOR	S
ALUMINUM BALUSTER CONNECTORS - Purchase (1) 20-pack per (1) baluster pack.	Aurilable Colore
Add stair adaptors as needed.	Available Colors
Baluster Connectors – 20-pack (use with Classic Balusters)	black, white and gray
Stair Connectors – 20-pack (use with Classic Balusters) (set at 35")	black, white, bronze, gray and brown
Designer Baluster Connectors – 20-pack (use with Classic Balusters)	black, white and bronze
Designer Baluster Stair Adaptors – 20-pack (use with Classic Balusters) (set at 35')	black
Standard Estate Baluster Connectors – 20-pack (use with Estate Balusters)	black and white
Standard Estate Stair Connectors – 20-pack (use with Estate Balusters) (set at 35')	black, white and brown
Designer Estate Baluster Connectors – 20-pack (use with Estate Balusters)	black, bronze and white
Designer Estate Stair Adaptors – 20-pack (use with Estate Balusters)	black and bronze
GLASS BALUSTERS CONNECTORS – Purchase (1) connector kit per (1) Scenic Baluster.	Available Colors
Frontier Scenic Connectors – 2-pack	black and white
Scenic Stair Connectors – 2-pack (set at 35")	
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	Available Colors
40-1/4" Post sleeve (for 36" rail)	
52" Post sleeve (for 42" or 36" rail or 42" stair rail)	black, white and weathered brown
4x4 Post base trim	
STEP 5 - CHOOSE YOUR POST CAPS	
ALUMINUM BASE POST CAPS – Purchase (1) post cap per post sleeve.	
Many options available.	

## DECKORATORS ALX PRO RAILING WITH FACE MOUNT BALUSTERS - HOW TO BUY

**Railing Colors** 







STEP 1 - CHOOSE YOUR RAILING	
ALX PRO RAIL KITS – Purchase (1) rail kit per 6' or 8' section.*	Available Colors
6' Rail kit with brackets	black and white
8' Rail kit with brackets	
CAP RAIL KITS (optional) – Purchase (1) cap rail kit per 6' or 8' rail section.	Available Colors
8' Cap rail kit with insert rail	black, white and woodgrain
* To create stair rails, you will need to purchase (2) stair bracket kits per stair rail.	
STEP 2 - CHOOSE YOUR BALUSTERS (FACE MOUNT)	
ARCHITECTURAL ALUMINUM BALUSTERS – Purchase (3) 5-packs per 6' rail or (4) 5-packs per 8' rail.	Available Colors
32-1/4" Baroque (for 36" line rail) – 5-pack (screws included) 40" Baroque (for 42" line rail) – 5-pack (screws included)	black, white and bronze
32-1/4" Arc (for 36" line rail) – 5-pack (screws included)	black and bronze
TRADITIONAL ALUMINUM BALUSTERS – Purchase (1.5) 10-packs per 6' rail or (2) 10-packs per 8' rail.	Available Colors
32" Traditional (for 36" line rail) – 10-pack (screws included)	black and brown
40" Traditional (for 42" line rail) – 10-pack (screws included)	black and bronze
GLASS BALUSTERS – Purchase (2) 5-packs per 6' rail OR (2.5) 5-packs per 8' rail.	Available Styles
32" Clear Scenic Glass (for 36" rail) – 5-pk (screws included)	Frontier
STEP 3 - 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.	Available Colors
40-1/4" Post sleeve (for 36" rail)	
52" Post sleeve (for 42" or 36" rail or 42" stair rail)	black and white
4x4 Post base trim	
STEP 4 - CHOOSE YOUR POST CAPS	
ALUMINUM BASE POST CAPS – Purchase (1) post cap per post sleeve.	
Many options available.	



## **EOVATIONS INSTALLATION GUIDE**

#### 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<sup>®</sup> Voyage<sup>™</sup> 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

	Installation style							
	Standard	Picture frame	Diagonal (45°)					
Residential	16"	16"	12"					
Commercial	12"	12"	12"					

Note: All dimensions are on-center.

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

Gapping requirements									
Installation temperature									
Above 32° F (0° C) (0° C)									
Side-to-Side	1/8"	3/16"							
End-to-End	1/16"	1/8"							
End-to-Side	1/16"	1/8"							
Abutting Solid Objects	1/8"	1/4"							



End Tag



**Product Sticker** 







Picture frame







#### Cutting

- 10" 40T, 80T circular blade
- 12" 40T, 72T, 80T circular blade
- Upcut with a clean/smooth jigsaw 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.

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



#### **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.

#### 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).

#### 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.

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Decto	Go Beyond Ordinary	DECKORATORS	SOLID DECKING
	Tools and Items Neede	d	
/power screwdriver drill bit ular saw with bide-tip blade	<ul> <li>Tape measure</li> <li>Carpenter's pencil</li> <li>Safety glasses/goggles</li> </ul>	<ul> <li>Set drill speed to 1500-1750 RPM</li> <li>Max torque not to exceed 23 inch pounds</li> </ul>	(B) I

• 21/2" composite wood deck screws

• Dril

• 1/8

Circ

carl

- DO NOT use cordless impact drivers
- t drill speed to 00-1750 RPM ax torgue not to ceed 23 inch pounds

 Pre-drill knots or dense hardwood

Each Deckorators<sup>®</sup> Vista<sup>™</sup>, Heritage<sup>™</sup>, Vault<sup>™</sup> and Voyage<sup>™</sup> 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 Deckorators 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. Deckorators 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 Deckorators Voyage, Vault and Frontier deck material, manufactured with Eovations™ 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 Deckorators Decking. Compatible fasteners are those which have been tested and recommended for use with Deckorators Decking by the fastener manufacturer. The use of a non-recommended fastener will not void the Deckorators 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.



(A) End Tag

(B) Product Sticker



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

Board-En	d to Board	i-End Gap	ping Req	uirements

	Warmest annual temperature °F expected in region											
u	°F	20	30	40	50	60	70	80	90	100	110	120
lati	20	1/8	1/8	1/8	1/8	1/8	3/16	3/16	1/4	1/4	5/16	5/16
ısta	30		1/8	1/8	1/8	1/8	1/8	3/16	3/16	1/4	1/4	5/16
of ir	40			1/8	1/8	1/8	1/8	1/8	3/16	3/16	1/4	1/4
day	50				1/8	1/8	1/8	1/8	1/8	3/16	3/16	1/4
6	60					1/8	1/8	1/8	1/8	1/8	3/16	3/16
е°F	70						1/8	1/8	1/8	1/8	1/8	3/16
atur	80							1/8	1/8	1/8	1/8	1/8
ber	90								1/8	1/8	1/8	1/8
Terr	100									1/8	1/8	1/8
	110										1/8	1/8
	120											1/8
Noto: Cutting all and of boards prior to installation									fia. 1			

Note: Cutting all ends of boards prior to installation recommended.



Pre-drill and countersink all deck screws, regardless of type, that are within 1-1/2" of the end of the deck board.

#### **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)*.

#### **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.

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## SLOTTED DECKING INSTALLATION INSTRUCTIONS **USING 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
- DO NOT use cordless impact drivers · Set drill speed at 1500-1750 RPM Max torque not to

Notice to installers:

black head screws

Use 305 stainless steel.

- exceed 23 inch pounds Pre-drill knots
- or dense hardwood

JOIST SP	ACING
12" on-center	16″ on-center
210 fasteners	175 fasteners
441 fasteners	336 fasteners
672 fasteners	512 fasteners
	JOIST SP 12" on-center 210 fasteners 441 fasteners 672 fasteners

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 Span**

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.

#### **End-to-End Spacing**

Follow the gapping requirements listed in fig. 1. For any decking where two boards meet end-toend 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.

Decyorators	
Storage Cover prior to installation to prevent water stains. Installation • All hands must be spaced properly to allow for expansion and contraction. Allow a ensimem. 10140 case between board sides. Refere to considere installation	Each variegated
Föll-sine i divagi rangenti tu General divagi rangenti tu 10 dira encodo metatri cu cu divagi rangenti 20 dira encodo metatri cu divagi rangenti divagi 20 dira divagi divagi divagi divagi divagi 20 dira divagi divagi divagi divagi divagi 20 dira divagi divagi divagi divagi divagi 20 divagi divagi divagi divagi divagi divagi divagi 20 divagi divagi divagi divagi divagi divagi divagi divagi 20 divagi di divagi divagi	Declorators beard has a unique appearance and should be armage the armage of the end user's preference.
Aregument The second s	Chaque planche de plantinge pocoide une apparence unique et devrait dece éler disposée au goi2 de l'utilizateur.
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400 sq. ft.

500 sq. ft.

5/4X6-16' GR. DKR. (A) End Tag

(B) Product Sticker

882 fasteners

1,113 fasteners

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

	Board-End to Board-End Gapping Requirements											
	Warmest annual temperature °F expected in region											
_	°F	20	30	40	50	60	70	80	90	100	110	120
atio	20	1/8	1/8	1/8	1/8	1/8	3/16	3/16	1/4	1/4	5/16	5/16
stall	30		1/8	1/8	1/8	1/8	1/8	3/16	3/16	1/4	1/4	5/16
fins	40			1/8	1/8	1/8	1/8	1/8	3/16	3/16	1/4	1/4
ay o	50				1/8	1/8	1/8	1/8	1/8	3/16	3/16	1/4
p u d	60					1/8	1/8	1/8	1/8	1/8	3/16	3/16
Å,	70						1/8	1/8	1/8	1/8	1/8	3/16
ture	80							1/8	1/8	1/8	1/8	1/8
era	90								1/8	1/8	1/8	1/8
emp	100									1/8	1/8	1/8
н	110										1/8	1/8
	120											1/8

Note: Cutting all ends of boards prior to installation recommended.

672 fasteners

848 fasteners

#### Fasteners

For ease of installation, our Stowaway fastener fits into the slot 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. 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.

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". 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.

On the other side of the board, place a Stowaway hidden fastener into the slot 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). Install one Stowaway fastener at each joist location. Slide the next board into place so the wings on the previous fasteners fit into the slot on the side of the board. Make sure the side gap between the boards is 1/4".

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 slot of the deck board with an 1/8" drill bit (fig. 5a). Drive screw into the slot 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 slot. 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).

NOTE: To predrill a groove on one side of deck board, we recommend using a 5/32" T-slot cutter.



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.



Install one Stowaway fastener at each joist location along the length of the board. For installations where deck boards are butted end-to-end at the joist, we recommend adding an 8" block and using a Stowaway hidden fastener clip at the end of each board (fig. 7 and fig. 8). Be sure to gap the boards as previously described.

Repeat the process for each board until the outside edge of the final board is fastened with screws. Use fascia to conceal the board profile and inhibit board movement over time. Please refer to the fascia installation instructions for the approved fastening methods for fascia boards. If no fascia is being used, the entire perimeter of the deck should be fastened to the rim joist with screws. Use two screws per joist on the perimeter board. These screws will be inconspicuous once the railing is installed. Decking should be fastened with screws when being used as stair treads.

#### 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.

#### **Mold Inhibitors**

As with deck washes, there are several moldinhibitor 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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## PORCH FLOORING INSTALLATION INSTRUCTIONS MADE WITH EOVATIONS<sup>™</sup> TECHNOLOGY

#### Tools and Items Needed

• Power screw gun or drill

- Safety glasses
- Pencil or pen
- Tape measure
- Utility knife
- Jigsaw
- Carpenter's square
   (speed square)
- Flooring nailerSoft malletPortable power sawFine-tooth saw blades (40-

tooth minimum, sharp car-

bide-tipped wood or finish/

trim blades

- sandpaper
- Chalk line
- Spacing tools
- Fastener-specific tools recommended by manufacturer

· Large file or medium-grit



Deckorators<sup>®</sup> 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.

Joist Spacing Requirements		
Standard	Picture Frame	Diagonal (45°)
16"	16"	12"

## Gapping Requirements

	Above 32°F (0°C)	Below 32°F (0°C)
End-to-End	1/8"	3/16"
End-to-Side	1/8"	3/16"
Abutting Solid Objects	1/8"	1/4"

#### 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.





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

• 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.

16

- Reverse thread composite screws.
- Set power driver such that screws are slightly counter sunk. Do not overdrive.
- PORCH FLOORING INSTALLATION INSTRUCTIONS

- 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 blemishes 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<sup>™</sup> 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 occuring 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 apperance 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 Deckortaors 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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## **STAIR TREAD INSTALLATION INSTRUCTIONS**

#### **Tools and Items Needed**

- Drill/power screwdriver
- 1/8" drill bit

- Tape measure
- Carpenter's pencil
  - Safety glasses/goggles

- Notice to installers:
- DO NOT use cordless impact drivers
- Set drill speed to 1500-1750 RPM

· Circular saw with carbide-tip blade

2 1/2" composite wood deck screws

- 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.

11<sup>s</sup> min. gap Stair tread Str

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

#### 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 ed 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* 

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 enviornmental 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 the 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 enviornmental factors affecting your deck, some preventative cleaning producrs 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.* 

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## DECKORATORS FASCIA INSTALLATION INSTRUCTIONS

#### **Tools and Items Needed**

- Drill/power screwdriver
- 1/8" drill bit

deck screws

- Circular saw with carbide-tip blade
  21/2" composite wood
- Tape measureCarpenter's pencil
- Safety glasses/goggles
   Notice to installers

impact drivers

• DO NOT use cordless

- Set drill speed to 1500-1750 RPM
  Max torgue not to exceed
- 23 inch pounds
- Pre-drill knots or dense hardwood

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.









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

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# Dec Go Beyond Ordinary

## SLEEPER SYSTEM INSTALLATION INSTRUCTIONS

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<sup>®</sup> Sleeper System should only be used with Deckorators decking or porch flooring featuring Eovations<sup>™</sup> 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.



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## **DEXERDRY® INSTALLATION INSTRUCTIONS**

#### **Tools and Items Needed**

- Drill/power screwdriver
- 1/8" drill bit
- Table saw
- Circular saw with carbide-tip blade
- Rubber mallet
- Chisel or board straightener Tape measure tool Deckorators Cortex fastening system (recommended) or 21/2"
  - Carpenter's pencil
  - Safety glasses/goggles
  - Router and router bit

Dexerdry is intended to utilize the area under decks, porches and balconies increasing outdoor living space. Following these instructions will provide a dry zone and make installation more enjoyable. Utilizing the frieze board, the Drip Edge and gutters when needed are essential in the Dexerdry installation process.

composite wood deck

screws

#### Seams

Dexerdry must be installed without seams. It runs continuously in long lengths that correspond to the deck board lengths: 12', 16', and 20'. Instructions for decks larger than 20' will be provided.

#### Concept

Dexerdry fits into the "slots" of the board which were originally intended for hidden fasteners. Dexerdry installs into these grooves to create the Dry Zone. The deck boards must be attached with top mount fasteners. We recommend Deckorators Cortex Fasteners for best appearance.

#### Drip Edge

Dexerdry requires a "drip edge" to be cut 7/16" deep into the bottom of both ends of every board, approximately 3/4" to 1" from the end. This should be done prior to installation. The drip edge eliminates water from wicking through the groove and getting trapped in the flange. This water does not come from the top surface of the deck but from the side of the boards as the water runs off and finds its way into the grooves due to "capillary action." The drip edge interrupts this flow and stops it before it can continue, so the drip edge must be deep enough to reach the groove of the deck board.

#### Slope

Dexerdry decks require 1/8" per foot of framing to allow proper runoff. One of the most frequently asked questions is, "Should the framing be changed if the boards run away from the house?" No - The flanges were designed to fill up the majority of the gap so the deck can be framed conventionally with the deck boards running parallel to the house. Instructions are provided for both parallel and perpendicular deck boards.

#### Railings

Dexerdry recommends "surface mounted posts" for railings. Suggestions for decks that require standard posts due to building codes will be provided.

#### Frieze Board

Dexerdry decks start at the wall where the first piece of Dexerdry is inserted into a frieze board routed with a groove along the entire length. The groove dimensions will correspond to the groove in the decking. The frieze board should be used in all applications and can be of a variety of materials.

NOTE: To predrill a groove on one side of deck board or frieze board we recommend a 5/32" T-slot cutter.

#### Installation of the Frieze Board

Rout a groove into a 5/4" x 4" length of PVC trim. This board is installed against the house along the entire length of the deck. The groove dimensions should correspond to the slot of the decking. Keep the frieze board perfectly straight against the house, shimming where needed. The frieze board must be 3" wider than the framing on each side. The 5/4" can be any dimension, but at least 5/4" x 4" is recommended. A length of decking can be used as well.





#### **First Piece of Dexerdry**

Using a rubber mallet, start at either end and tap the Dexerdry into the grooved frieze board. It should fit snugly with the vertical part of the flange pressed up against the vertical face of the trim board. A pair of conduit cutters, also called PVC pipe cutters, are suggested for cutting Dexerdry.

#### **First Deck Board**

**NOTE:** All deck boards will require "Dexerdry Drip Edge", a 7/16" deep cut on the bottom of each end of every board, 3/4" to 1" in from the ends. Let the boards overhang 1 3/8" for Picture Frame. Once the drip edge is implemented, inspect the grooves in the board and remove any debris. Using the rubber mallet, install the first deck board against the frieze board making sure the first piece of Dexerdry fits snugly into the grooved deck board. Cinch the deck board tightly using a chisel and a block of wood or a tool designed to pull the deck board in tightly. Using Cortex or top mounted deck screws, start from the center of the deck and install all the screws. It is important to make sure the frieze board and first deck board are straight along the house. Dexerdry is also a spacer so a straight deck depends on how straight the first board is installed. The first board should be cut to the exact length desired before installation.

#### Continue Deck Boards / Dexerdry Installation

The next piece of Dexerdry will now be tapped into the groove of the board just installed using the rubber mallet. The rest of the Dexerdry and deck boards can run long and be trimmed later with a circular saw using a straight edge or chalk line. Remember to cut the drip edge into the bottom ends of each board prior to installation and check all the grooves of the decking to ensure they are free from any dirt or damage. Cinch the decking tightly against the Dexerdry flange using a chisel and a block of wood and start attaching the board, preferably working from the center out using the top mount screws. Repeat this installation process throughout the rest of the deck until the last few boards.

#### **Final Few Grooved Deck Boards**

**Framing tip:** Since the decking is starting at the house, the final edge should be a full deck board. This is achieved by NOT cutting the ends of the joists until the deck is about three to four boards from the end. Accurately measure where to cut the joists by measuring where three more rows of decking will end. Measure back from that point deducting the overhang, the thickness of the fascia board and the thickness of the "box" material (usually 1 5/8"). We recommend doubling all the perimeter (2x) material around the entire deck. If a 2 x 10 is being used for framing, make the entire perimeter double 2 x 10s to solidly attach the surface mounted posts. Once the deck framing is complete, install the last couple of deck boards and Dexerdry but leave the very last "routed" deck board off so it is accurately cut or mitered to allow the "picture frame" detail. Trim the extra length of the Dexerdry and deck boards with a circular saw.

#### Last Deck Board

The last deck board should be a solid, square edged board that will need to be routed on one side with the same router bit used for the frieze board groove. A continuous drip edge should be cut along the entire length of the board on the bottom about 1/2" from the edge. Use a table saw for this cut. Miter both ends 1 5/8" in and stop, then cut the rest square. This board will be 3 1/4" longer than the other deck boards. Cinch tightly against the last piece of Dexerdry and install.











#### **Dexerdry Picture Frame**

The frieze board extends 3" beyond the width of the ledger board on both sides. Cut and install 1 1/2" x 1 1/2" "sleepers" every 12" to 16" vertically to bump out the fascia. Rip a deck board 1 1/2" wide, then flip it around and rip the other side. This gets both sides from one deck board. Measure from the mitered tip of the last deck board to the frieze board, deduct 1/8" for the Dexerdry width. Rout the small end at the frieze board. Pre-drill the sides of the trim piece every 12" making sure not to screw through the ends of the Dexerdy. Make 1/8" spacers where the screws land to allow run-off to go between the fascia board and the framing, a gutter can be added later if desired. Install with 2 1/2" screws. The fascia boards can now be installed, doing the sides first, then the front.

#### **Surface Mounted Posts**

Check with your local regulatory agency for code requirements in your area prior to installing rail posts. Using surface mounted posts when installing handrails is recommended on Dexerdry decks. Doubling up on all outside perimeter framing allows proper bolting of these posts. If building codes require bolting wooden 4x4s through the deck, the posts must be properly flashed and caulked.

#### Decks over 20' Wide

Dexerdry is intended to run in continuous lengths along the deck boards without any seams in the flanges or overlapping of the deck boards. Longer runs are achieved by incorporating a small gutter at the end of a 20' run, gapping the decking about 1/4", then continuing the next run. A "butt board" can also be incorporated with a gutter on each side of it. Follow all of the above instructions and install as if two 20' decks were installed side by side. The gutter can be bent on the job with a "metal bending brake". We suggest using copper for best results. If using aluminum, put a barrier between the aluminum and ACQ pressure-treated framing to prevent direct contact of ACQ pressure-treated wood and aluminum products.

#### Wrap-Around Decks

When a deck wraps around the corner of the house incorporate a gutter where the two decks intersect, as if two decks were built both with a frieze board.

#### **Deck Boards Perpendicular to the House**

Install the frieze board as before along the house. Install the first deck board the same as before but first add two additional joists parallel to the ledger board and run a pitched gutter the length of the deck. Remember to implement the drip edge along the outer edge of the first board with the table saw, and on the ends of each deck board.

#### **Pocketed Decks**

The above instructions for perpendicular decks applies to any circumstance where the deck boards run long ways away from the building, such as "pocketed decks" or balconies that are set into a building.



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## **ALX CLASSIC** INSTALLATION INSTRUCTIONS

Balusters sold separately in à la carte kits

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

ded

Adjustable wrench

#### Contents

2 - 6' or 8' aluminum rails with baluster connectors installed (Connectors not included in a la carte kits)

level or stair bracket kit

16 - #8 x 3/4" screws (8 - #8 x 3/4" and 8 - #8 x 1-3/4" screws for stair kits)

15 balusters (12 for stair kits, 20 for 8ft line kits), (balusters not included in a la carte kits)

30 - 1" metal sheet screws (40 for 8ft rail) in à la carte kits only

NOTE: Recommend 5/16" x 4" or longer lags

#### 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".

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

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

Step 2 Installing posts: Install posts by attaching the aluminum base to the surface of the deck. Position the post so the fastener will go into the floor joist, and make sure the decking is firmly attached to the joist at the location of the posts. 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 3 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 into the deck and reinforcement.

**Step 4** Reposition the post assembly over the predrilled holes and insert the fasteners (not included). Secure the base to the deck structure. Make certain the posts are plumb. If the post requires adjustment, add stainless steel washers under the base plate.

Step 5 Finish by sliding a post base trim (optional) over each post for a finished look. Note: Installing the post base trim prior to installing the bottom rail is recommended. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed.

**Step 6** For a la carte rails: Install baluster connectors using sheet metal screws included in the a la carte kits. Install using pre-drilled holes. Do not over tighten.

#### 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** Measure the distance between installed posts to determine the length of the top and bottom rails (fig. 1). Lay bottom rail on deck. The distance between the post and the first baluster should be less than 4" and equal on both





ends. Mark the angle and length. Repeat with the top rail. Remove an additional 13/64" on both ends (13/32" overall) for the bracket to fit between the rail and post. Trim the top and bottom rails to length.

**Step 8** Temporarily place the brackets on either end of the bottom rail. Position the bottom rail between posts and center. Check building code requirements for maximum spacing between deck surface and bottom of rail (sweep). Spacing of 3" is recommended for 36" or 42" finished rail height. 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 9 Attach each bracket to the posts with three 3/4" screws.

**Step 10** A support block is needed every 2 feet (2 are included in the 6ft kit, 3 in the 8ft kit). Attach support block connectors to the bottom of the lower rail at 2 foot intervals. Predrill using a 1/8" drill bit. Attach the support blocks to the support block connectors. Mark the location of the support block on the deck surface and attach the other support block connector to the deck using the included screw.

**Step 11** Install the bottom rail between the posts by setting it in the brackets. Snap top trim piece to the rail bracket.

Step 12 Attach baluster to the lower rail by sliding onto connection (fig. 2).

**Step 13** 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 14** 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.* 

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

**Step 4** Finish by sliding a post base trim (optional) over each post sleeve for a finished look. *Note: Installing the post base trim prior to installing the bottom rail is recommended. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed.* 

**Step 5** Measure the distance between installed posts to determine the length of the top and bottom rails. Lay bottom rail on stairs with the predrilled holes facing 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. 3).

Step 6 Mark location of the bracket screw holes on bottom rails. Remove bracket. Predrill through the rail only, using a 1/8" drill bit.

Step 7 Attach each bracket to the post with two 1-3/4" screws

**Step 8** For a la carte rails: Install baluster connectors using sheet metal screws included in the a la carte kits. The rails are predrilled with the proper spacing. The top and bottom connectors will be facing opposite directions. Attach baluster connectors to rails. Do not over tighten.

#### 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 9 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 10 A support block is needed every 2 feet (2 are included in the 6ft kit, 3 in the 8ft kit). Attach support block 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 support block on the step tread and attach the other support block connectors to the step tread.



fig. 4

Step 11 Install the bottom rail between the posts by setting rail in brackets. Snap top trim piece to the rail bracket. 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.

Step 12 Attach balusters to the lower rail by sliding onto the connectors. Stair adapters are set at 35°.

Step 13 Position the top rail between the posts. Check for plumb end-to-end and vertically. Mark the bracket location on post and remove rail. Mark the screw locations using the bracket as a guide, and predrill using a 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 14 Set post caps on each post. Gently tap with rubber mallet to secure.

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Deccorators Go Beyond Ordin	PREASSEMBLEI	
Tools and Item	is Needed	
<ul> <li>Drill/power screwdriver</li> <li>Miter or circular saw with carbide tip blade</li> <li>Marked speed square</li> <li>Carpenter's</li> <li>Carpenter's</li> <li>Adjustable w or socket wu bolts, etc.</li> </ul>	level • Safety glasses/goggles pencil • Rubber mallet vrench • Tape measure rench for	
Conten	ts	
6' or 8' aluminum rail section with 15 balusters and connectors installed with stainless steel screws (20 balusters for 8' rails) Support block kits (3 for 8' rails) TE: Recommend 5/16" x 4" or longer lags	You will also need: Pre-assembled in-line, corner or end posts with rail brackets installed (comes with post base trim and standard post cap)	

## D ALX CLASSIC **NSTRUCTIONS**



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#### In-Line Railing Installation Instructions

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

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

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



Step 2 Installing posts: Install posts by attaching the aluminum base to the surface of the deck. Position the post so the fastener will go into the floor joist, and

make sure the decking is firmly attached to the joist at the location of the posts. 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 3 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 over the predrilled holes and insert the fasteners (not included). Secure the base to the deck structure. Make certain the posts are plumb. If the post requires adjustment, add stainless steel washers under the base plate.

Step 5 Finish by sliding a post base trim (optional) over each post for a finished look. Note: Installing the post base trim prior to installing the bottom rail is recommended. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed.

Step 6 Measure the distance between installed posts, including the pre-attached rail brackets to determine the length of the top and bottom rails (fig. 1). 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. Trim the top and bottom rails to length.

Step 7 A support block is needed every 2 feet (2 are included in the 6ft kit, 3 in the 8ft kit). Attach support block connectors to the bottom of the lower rail at 2 foot intervals. Predrill using a 1/8" drill bit. Attach the support blocks to the support block connectors. Mark the location of the support block on the deck surface and attach the other support block connector to the deck using the included screw.

Step 8 Install the rail between the posts by setting it in the brackets. Snap top trim pieces to the rail brackets. Attach the top rail to each bracket by predrilling with a 1/8" drill bit and using two 3/4" screws. The bottom rail will be held in place by the rail bracket. Attaching the brackets to the bottom rail with screws is not necessary. 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.

#### **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.

**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 structural blocking.

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

**Step 4** Finish by sliding a post base trim (optional) over each post sleeve for a finished look. *Note: Installing the post base trim prior to installing the bottom rail is recommended. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed.* 

**Step 5** Measure the distance between installed posts to determine the length of the top and bottom rails. Lay bottom rail on stairs with the predrilled holes facing 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.





end, mark and cut the other end of top rail to match overall length of bottom rail (fig. 3).

**Step 6** Mark location of the bracket screw holes on bottom rails. Remove bracket. Predrill through the rail only, using a 1/8" drill bit. 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 support block is needed every 2 feet (2 are included in the 6ft kit, 3 in the 8ft kit). Attach support block 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 support block on the step tread and attach the other support block connectors to the step tread.

**Step 9** Install the bottom rail between the posts by setting rail in brackets. Snap top trim piece to the rail bracket. 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.* 

Step 10 Attach balusters to the lower rail by sliding onto the connectors.

**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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## ALX PRO RAILING INSTALLATION INSTRUCTIONS



#### **Tools and Items Needed**

- Drill/power screwdriverMiter or circular saw
- 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

Carpenter's level

square

- Carpenter's pencil
  Safety glasses/ accelos
- goggles

  Two clamps
- Hack saw
- Hack saw
- Exterior-grade metal construction adhesive

#### 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". 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 (1/2" overall) for the bracket to fit between the rail and post. Trim the top and bottom rails to length.





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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  $\div$  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  $\div 2 =$  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.

#### **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 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 connector. 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 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 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.

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## ALX CONTEMPORARY INSTALLATION INSTRUCTIONS

#### **Tools and Items Needed**

· Carpenter's level

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

Please do not remove strapping until full installation is completed. Predrill all screw holes for best results.

#### **In-Line Railing Installation Instructions**

**Prior to construction, check with your local regulatory agency for special code requirements in your area.** Common railing height is 36" or 42". Read instructions completely to get an understanding of how the product goes together and how each piece affects the other.

**Step 1** Determine the number of railing posts needed for your deck. Post spacing is 6' or 8' on-center. Example: A 12' x 16' deck attached to a building with a 4' access opening on one side will require a total of eight posts.

**Step 2 Installing posts:** Install posts by attaching the aluminum base to the surface of the deck. Position the post so the fastener will go into the floor joist, and make sure the decking is firmly attached to the joist at the location of the posts. 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 3** 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 over the predrilled holes and insert the fasteners (not included). *Note: Recommend 5/16" x 4" or longer lag screws.* Secure the base to the deck structure. Make certain the posts are plumb. If the post requires adjustment, add stainless steel washers under the base plate.

**Step 5** Finish by sliding a post base trim (optional) over each post for a finished look. Note: Installing the post base trim prior to installing the bottom rail is recommended. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed.

**Step 6** Measure the distance between installed posts to determine the length of the top and bottom rails (fig.1). 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. 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.

**Step 7** 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.

**Step 8** 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. 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 9** A support block is needed every 2 feet (2 are included in the 6ft kit, 3 in the 8ft kit). Attach support block connectors to the bottom of the lower rail at 2 foot intervals. Predrill using a 1/8" drill bit. Attach the support blocks to the support block connectors. Mark the location of the support block on the deck surface and attach the other support block connector to the deck using the included screw.

**Step 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.* 

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

#### **Stair Railing Installation Instructions**

**Step 1** Begin by determining where the top and bottom post will be located. Mark the desired location of the post. *Note: To ensure post location is compatible with railing, prior to securing to the deck, place both posts in position, and lay the bottom rail along the stair nosing from top to bottom adjacent to both posts. On the rail side of the post, measure up from the top of the rail and ensure there is a minimum of 34" to the top of the post. Post location may need to be adjusted to ensure minimum is obtained. Repeat this step for the bottom post.* For a wood deck, position the post so the fasteners will go into the 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 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 over predrilled holes. Insert fasteners (not provided), then secure the base to the deck structure. Make certain the posts are plumb. If the post requires adjustment, add stainless steel washers under the base plate.

**Step 4** Finish by sliding a post base trim (optional) over each post sleeve for a finished look. *Note: Installing the post base trim prior to installing the railing is recommended. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed.* 

**Step 5** 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. 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 support block is needed every 2 feet (2 are included in the 6ft rail kit, 3 in the 8ft kit). Attach support block 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 support block on the step tread and attach the other support block connectors to the step tread.

**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.





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## **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
- socket wrench Safety glasses/goggles

Carpenter's pencil

· Adjustable wrench or

- Assorted fasteners (see instructions)
- Tape measure
- Wire cutters

#### 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 45° at any time. When turning 90°, 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 90° 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 screwdrive in the turnbuckle and turning to create tension. Use a wrench to holc 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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#### 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.

Step 1: Measure 2-1/2" less than the handrail height to determine

made in Step 1. Drill 5/32" pilot holes and attach to the desired

End Caps optional

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

#### **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 1/2 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.





requirements of 2009 IRC.

Structural Structural Support



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## CLASSIC BALUSTER INSTALLATION INSTRUCTIONS

#### **Kit Contents:**

10 - Aluminum balusters
 (2.5 balusters required per linear foot of railing)

#### **Items You Will Need:**

- Deckorators baluster connectors (sold separately)
- Clamps
- Safety glasses
- Deckorators stair connectors
   Carj set at 35° (sold separately)
   White
- Deckorators rail connectors (optional, sold separately)
- Drill driver
- Tape measure

- Carpenter's pencilWhite 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 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 cetner 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.



#### **STAIR RAILING**

**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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## ESTATE BALUSTER INSTALLATION INSTRUCTIONS

#### 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 malletSupport blocks (can be cut
- from scrap rail material)

# **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.

#### **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 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.



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#### 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  $\div 2$  = center of rail.



# ARC, TRADITIONAL AND BAROQUE INSTALLATION INSTRUCTIONS

**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  $\div 2$  = 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:**

OR

- Scenic Glass Balusters
- 5 Glass balusters
- 20 Stainless steel screws (You will need 1.5 balusters per linear foot of handrail.)
- Frosted Glass Balusters • 3 - Glass balusters
- 12 Stainless steel screws

#### **Items You Will Need:**

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

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  $\div 2$  = 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  $\div 2 =$  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.



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**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.





#### **Kit Contents:**

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

Items You Will Need:	
Support block	٨S

- Drill driver
- Tape measure2-pt. square head drill bit
- Safety glasses
- Carpenter's pencil
- Clamps
- Clamps

- (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.



# SCENIC GLASS BALUSTER INSTALLATION INSTRUCTIONS (CONNECTORS)

**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 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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## POST CAP INSTALLATION INSTRUCTIONS

#### 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. Attack 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.











50 POST CAP INSTALLATION INSTRUCTIONS

#### **Deck 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 filigreed 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.



## LUNA POST CAP INSTALLATION



Mounting



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.
- 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 installtion or service.
- 2. Run wire to bottom of post according to local building practices.
- 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.)



## LUNA STEP LIGHT INSTALLATION



#### Drawing 2 - Dry Location Application



#### Drawing 3 - Wet Location Application



#### **OPERATION NOTES:**

- 1. This luminaire is designed to be operated with Deckorators approved 12 Volt AC systems or other 9-15 Volt DC systems.
- 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.
- Once attached to the outlet box, attach the cover plate (CP) by angling the plate at 45 degrees until the underside lif 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)

 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 Installation Without A Box - Cut Out Template



## \*Cut 1-5/8" Deep



#### **Cover Installation**







## NUVI DECK SCONCE INSTALLATION

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.



## **ROUND DECK SCONCE INSTALLATION**

#### **Drill Template**



#8 PAN HEAD WOOD SCREW 3/4" LONG (2) Reqd.

#### Installation



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 installtion or service.
- 2. Run wire to bottom of post according to local building practices.
- 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).



## SQUARE DECK SCONCE INSTALLATION

**Drill Template** 



#### Installation



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.
- 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 installtion or service.
- 2. Run wire to bottom of post according to local building practices.
- 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).



## 42" AND 53" POSTCOVER **INSTALLATION INSTRUCTIONS**

#### 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







1

Stacked Stone

Cobblestone

Fieldstone

#### 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 2x4's and the 53" requires 52" high pieces. For inline 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.



## **Postcover Installation**

#### 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.

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 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

#### 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 recommeded 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 botton post cover and press firmly into place. Apply a bead of concete 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 and 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 concret 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 conrete adhesive.
- Place the two halves of the post cap around the post so that they interlock, and press down firmly. Remove an 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.

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, [UNIVERSAL CONSUMER PRODUCTS, INC.] DOES NOT PROVIDE ANY OTHER WARRANTY, EITHER EXPRESS OR IMPLIED, AND SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES.

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## PLASTIC LATTICE INSTALLATION TIPS

#### **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.

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.

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.









United States and Canada Decking, Porch Flooring and Composite Railing Limited Warranty

#### 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 Eovations<sup>™</sup> 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

PROBATED REFUND SCHEDULE

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

Years since purchase	Percent purchase price covered	
Years 1 - 6	100%	
Years 7 - 10	80%	
Years 11 - 14	60%	
Years 15 – 18	40%	
Years 19 – 21	20%	
Years 22 - 25	10%	



## ALX Railing and Baluster Lifetime Limited Warranty

#### ELIGIBILITY

Universal Consumer Products, Inc. (the "Warrantor") is pleased to extend this Warranty to you, the original consumer/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, and may not be assigned or transferred by you.

#### LIFETIME LIMITED WARRANTY

Warrantor, at its sole option, will replace or refund a prorated portion of the 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 a prorated portion of the 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.

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 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.

#### Prorated Refund Schedule

Years Since Purchase	% Purchase Price Covered
Years 1 - 6	100%
Years 7 - 10	80%
Years 11 - 14	60%
Years 15 - 18	40%
Years 19 - 21	20%
Years 22 - 25	10%

#### 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 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.
- Is damaged by continuous exposure to salt water conditions when installed within one (1) mile of any coastal salt water.

## **ALX Railing and Baluster Lifetime Limited Warranty**



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 any product 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.

#### **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: Universal Consumer Products, Inc. Warranty Information 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.

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## WARRANTY INFORMATION

#### POSTCOVERS

15-year Limited Warranty. During the limited warranty period, Warrantor, at its soles 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 long available, Warrantor reserve right to provide a similar product of equivalent quality and value. For complete warranty, please visit http://www.deckorators.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.deckorators.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. Warrantors 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 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 long 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 work-manship 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/







DOWNLOAD THE TABLET APP:

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.





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