Kodiak® Composite Decking & Railing
Installation and Resource Instructions

Features and benefits
Deeckrunch has engineered Kodiak composite decking and railing with performance in mind. Kodiak composite decking’s superior weathering characteristics, compared to similar competitive products, provide for years of enjoyment without the worry of periodic refinishing. Kodiak composite decking also resists water, mold and insect damage and is backed by a 30-year warranty for your peace of mind.

Both homeowners and contractors can appreciate the colors, comfort, durability and design flexibility that Kodiak composite decking and railing offers.

- Precision in every plank. Save time sorting through lumber and reduce on-job aggravation. Kodiak deck planks offer unsurpassed flatness, straightness and even, consistent installation—every time.
- Engineered to exacting standards. Tight controls on the raw materials, precision processes and attention to detail ensure a uniform product, offering exceptional performance.
- Solid, non-porous composite deck boards, rails and fascia resist rot, splinters, cupping and damage from insects for best-in-class enjoyment year after year.
- Works like wood, only better. Router, miter, cut and fasten Kodiak composite decking and railing just like wood, then enjoy the fact that the job is complete—without additional staining or painting.
- Eco-friendly, 100% recyclable material for the green-conscious consumer. Made with 100% recycled fiber encapsulated in High Density Polyethylene. Kodiak composite decking and railing has a much longer lifespan than natural wood due to the combination of Polyethylene and wood fibers. The material is weather resistant throughout, Kodiak composite products conserve resources and eliminate the negative environmental impact of stains and weathering.
- Optional Hidden Fasteners speed installation. Reduce your installation time by 30%, with uniform spacing of the deck planks and no unsightly screw heads or dangerous nail pops.

What to expect from Kodiak composite decking and railing
Because Kodiak is made from real wood, you can expect Kodiak to exhibit many of the same properties as wood.

STORAGE
Store Kodiak composite products under cover to maintain a clean surface. If stored outdoors, the products must be covered with a non-metallic, non-porous material. All products should be stored flat and on a dry surface. Stack units with banding and bottom supports aligned.

HANDLING
To maintain the beauty of Kodiak composite products please follow these important guidelines when moving and working with Kodiak composite:

- Never dump Kodiak materials when unloading.
- When carrying Kodiak deck planks, carry on edge for better support.
- Do not slide planks against each other when moving them.
- When moving the planks, make sure they are leveled and supported to prevent warping.
- Do not slide tools or drag equipment across the top of the planks.
- During construction, keep the surface of the planks free of construction waste to prevent damage to the planks.
- Bundles need to be transported with a forklift that has at least 45 inch blade support, so that the blades reach all the way across the bundle to evenly support the product. The blades of the forklift need to be spread as far apart as possible for optimum support, the forklift blades are parallel with the ground to avoid damaging the bottom surface.

When transporting on a smooth cement surface the maximum number of bundles that can be stacked on forklift blades are:
- 1 bundle of 20’ length at a time
- 2 bundles of 10’ length at a time
- 3 bundles of 12’ length at a time

When transporting bundles on other than a smooth cement surface (gravel, earth, broken asphalt) it is important to only transport one bundle at a time and maintain a slow rate of speed to keep from flexing the product.

Product can be stacked in a warehouse as high as 15 bundles.

COLOR VARIATION
Like real wood planks, each Kodiak composite board is unique, reflecting the natural variations of wood. The distinctive wood grain of Kodiak reflects light differently depending on the direction of the grain. Together, these factors work to provide the warmth and natural beauty of wood without the hassle. When using boards from multiple bundles, it is recommended to mix boards from the different bundles during the installation process.

NATURAL WEATHERING AND COLOR SHIFTING
For the first few months following installation, Kodiak composite will naturally shift color as it begins to weather to a slightly lighter shade than the original color purchased. Like fine hardwood flooring, most color change will occur during the first year. After that, the Kodiak will weather consistently and beautifully. Inconsistent or uneven exposure to sun and elements will cause the deck to weather unevenly. Although this condition is temporary, you can prevent uneven exposure by not covering the deck with rugs, matts or furniture during the initial few months.

BLOOMING
During the first few weeks after the composite material is exposed to the outdoors, Kodiak may experience a light brown-yellow color shift. This shift occurs because the natural wood fibers found in composite decking begin to oxidize or “bloom.” Blooming is noticed in the grey color family of colors more than others. The amount of time it takes for blooming to occur varies, depending on weather conditions and exposure to direct sunlight. However, this process rarely takes longer than four weeks, after which Kodiak returns to its natural weathering process.

STAINING, PAINTING AND WATERPROOFING
Staining, painting and application of deck insect or waterproofing is not necessary, if applied, it is important to properly bond the surface and will flake off. In fact, the use of stains or paint will void the warranty.

SCRATCHING AND DENTING
Just like fine hardwood flooring or genuine cedar decking, Kodiak will scratch and dent. Care should be taken to avoid scratching. Sanding and sandblasting. Scratches that do appear will usually weather to a consistent color, due to the product’s density and color-through-fine-maturation.

WATER STAINING
As soon as your deck is installed, be sure to sprays it with a garden hose, rinsing each board thoroughly and evenly. The first rinse will sufficiently hydrate Kodiak boards to prevent discoloration due to uneven moisture levels or “water staining.” If this occurs, simply rinse evenly with water and let dry naturally. The stains will weather away in a few days.

STYLING AND edgeING
Kodiak composite decking is guaranteed not to splinter or rot, it will not split when installed according to manufacturer’s instructions.

SILT RESISTANCE
Kodiak® meets the Americans with Disabilities Act (ADA) requirements.

POOLS AND SPAS
Kodiak is designed to be used in conjunction with all outdoor living activities. Chlorinated water from pools and spas will not harm Kodiak.

SEASIDE INSTALLATIONS
Kodiak composite decking is designed to withstand seaside environments. It is the perfect choice for docks, slips and beach house decks.

CONSUMER CARE/MAINTENANCE TIPS

- Dirt, Grime, Mold and Mildew Stains: As with all outdoor products, common dirt and dust stains should be cleaned occasionally with a garden hose or soft-bristled brush. Kodiak is a low-maintenance product, not a no-maintenance product. Kodiak products are formulated to inhibit mildew growth and minimize staining. Do not use bleach or漂 whiteners. Certain compounds (like baking soda) can cause discoloration. Mildew stains may occur when moisture, polishes and/or dirt are present. Mildew needs a food source to grow, which can be grass, dirt, debris and wood and wood residue.

- Geocaching that are recommended for use with Kodiak composite are:
  - Sun Frog Composite Deck Cleaner
  - EZ Off Composite Wood Cleaner
  - Super Deck Composite Deck Cleaner
  - Thompson’s Water Seal—Oxy Action
  - Care Clean

- Rust: Use a deck cleaner containing phosphoric acid and a commercial pressure washer to thoroughly clean ( excess 1100 PSI; see additional information below under power washing).

- Caulking, tar, compounds and similar substances: Clean with mineral spirits in reasonable amounts, rinsing with water immediately.

- Between deck planks: Use a plastic putty knife and gently clean between deck boards to clean off.
Features and benefits

Decksurround has engineered Kodiak composite decking and railing with performance in mind. Kodiak composite decking’s superior weathering characteristics, compared to similar competitive products, provide for years of enjoyment without the worry of patching. Kodiak composite decking also resists water, mold and insect damage and is backed by a 30-year warranty for your peace of mind.

Both homeowners and contractors can appreciate the colors, comfort, durability and design flexibility that Kodiak composite decking and railing offers.

• Precision in every plank. Save time sorting lumber and reduce on-the-job aggravation. Kodiak deck planks offer unsurpassed flatness, straightness and uniform installation—every plank.

• Engineered to exacting standards. Tight controls on the raw materials, precision processes and attention to detail ensure a uniform product, offering exceptional performance.

• Solid, non-porous composite deck boards, rails and fascia rot, splinters, cupping and damage from insects for best possible enjoyment year after year.

• Works like wood, only better. Router, miter, cut and fasten Kodiak composite decking and railing just like wood, then enjoy the fact that it is complete—without additional staining or painting.

• Eco-friendly. 100% recyclable material for the green-conscious consumer. Made with 40% recycled plastic and 60% recycled wood fiber encapsulated in High Density Polyethylene. Kodiak composite decking and railing has a much longer life than traditional wood due to its unique manufacturing processes in high-precision, high-temperature machines resulting in a composite board product. The distinctive wood grain of Kodiak reflects light beautifully. The natural wood fibers in the product are dispersed throughout, making the board a very dense, uniform product that offers excellent weathering and the color is dispersed throughout. Kodiak composite products conserve resources and eliminate the negative environmental impact of harvesting and transporting wood.

• Optional Hidden Fastners speed installation. Reduce your installation time by 30%, with uniform spacing of the deck planks and no unsightly screw heads or dangerous nail pops.

What to expect from Kodiak composite decking and railing

Because Kodiak is made from real wood, you can expect Kodiak to exhibit many of the same properties as wood.

STORAGE

Store Kodiak composite products under cover to maintain a clean surface. If stored outdoors, it must be covered with a non-metallic, non-porous material. All products should be stored flat and dry on a dry surface. Stack units with banding and bottom supports aligned.

HANDLING

To maintain the beauty of Kodiak composite products please follow these important guidelines when moving and working with Kodiak composite:

• Never dump Kodiak materials when unloading.

• When carrying Kodiak deck planks, carry on edge for better support.

• Do not slide planks against each other when moving them.

• When removing, the planks must be covered with a non-metallic non-porous material. All products should be stored flat and dry on a dry surface. Stack units with banding and bottom supports aligned.

• Do not slide tools or drag equipment across the top of the planks.

• During construction, keep the surface of the planks free of construction waste to prevent damage to the planks.

BUNDLES

Bundles need to be transported with a forklift that has at least 45 inch blade as measured outside to outside. For bundled planks it is important to only transport one bundle at a time and maintain a slow rate of speed to keep from flexing the product.

Product can be stacked in a warehouse as high as 15 bundles.

COLOR VARIATION

Like natural wood planks, each Kodiak composite board is unique, reflecting the natural variations of wood. The distinctive wood grain of Kodiak reflects light differently depending on the direction of the grain. Together, these factors work to provide the warm, natural look and feel of wood without the hassle. When using boards from multiple bundles, it is recommended to mix boards from the different bundles during the installation process.

NATURAL WEATHERING AND COLOR SHIFTING

For the first few months following installation, Kodiak composite will naturally shift color as it begins to weather to a slightly lighter shade than the original color purchased. Like fine hardwood flooring, most color change will occur during the first year. After that, the Kodiak will weather consistently and beautifully. Inconsistent or uneven exposure to sun and elements will cause the deck to weather unevenly. Although this condition is temporary, you can prevent uneven exposure by not covering the deck with rugs, mats or furniture during the first few weeks.

BLOOMING

During the first few weeks after the composite material is exposed to the outdoors, Kodiak may experience a light brown-yellow color shift. This shift occurs because the natural wood fibers in the composite decking begin to oxidize or “bloom.” Blooming is noticed in the grey family of colors more than others. The amount of time it takes for blooming to occur varies, depending on weather conditions and exposure to direct sunlight. However, this process rarely takes longer than four weeks, after which Kodiak returns to its natural weathering process.

STAINING, PAINTING AND WATERPROOFING

Staining, painting and application of deck restain or waterproofing is not necessary, if applied, it is important to ensure installation to minimize the effects of weathering and the color is dispersed throughout. Kodiak composite products conserve resources and eliminate the negative environmental impact of harvesting and transporting wood.

SCRATCHING AND DENTING

Just like fine hardwood flooring or genuine cedar decking, Kodiak will scratch and dent. Catalytic converters should be installed at your own discretion to minimize installation to scratches and damage from tools and mishandling. After installation, avoid draping furniture, outdoor grills or other sharp objects across the surface. Keep the surface free of debris and keep it properly toned to the surface and will flash off. In fact, the use of stains or paint will void the warranty.

WATER STANDING

As soon as your deck is installed, be sure to spray it with a garden hose, rinsing each board thoroughly and evenly. The first rinse will sufficiently hydrate Kodiak boards to prevent discoloration due to uneven moisture levels or “water spotting.” Do not over-water. Too much water will cause the plank to absorb water, simply rinse evenly with water and let dry naturally. The stains will weather away in a few days.

SPLINTERING AND ROTTING

Kodiak composite decking is guaranteed not to splinter or rot, it will not split when installed according to manufacturer’s instructions.

SLIP RESISTANCE

Kodiak complies with the Americans with Disabilities Act (ADA) requirements.

POOLS AND SPAS

Kodiak is designed to be used in conjunction with all outdoor living activities. Chlorinated water from pools and spas will not harm Kodiak.

SEASIDE INSTALLATIONS

Kodiak composite decking is designed to withstand seaside environments. It is the perfect choice for docks, slips and beach house decks.

CONSUMER CARE/MAINTENANCE TIPS

Cut, Grind, Mord and Mildew Stains: As with all outdoor products, common dirt and stains can be cleaned occasionally with a garden hose or soft-bristled brush. Kodiak is a low-maintenance product, not a no-maintenance product. Kodiak products are formulated to inhibit mildew growth and minimize staining. Do not use a detergent that is non-ionic or anionic to build-up of polyelectrolytes. Mildew stains may occur when moisture, polyelectrolytes and/or dirt are present. Mildew needs a food source to grow, which can be grass, dirt, debris and wood and/ or water.

Cleaners that are recommended for use with Kodiak composite are:

• Sun Frog Composite Deck Cleaner
• EZ Off Composite Wood Cleaner
• Super Deck Composite Deck Cleaner
• Thompson’s Water Seal—Oxygen Action
• Carpe Clean

Rust: Use a deck cleaner containing phosphoric acid and a commercial pressure washer. Use the fan nozzle to exceed 1100 PSI; see additional information below under power washing.

Caulking, tar, compounds and similar substances: Clean with mineral spirits in reasonable amounts, rinsing with water immediately.

Between deck planks: Use a plastic putty knife and gently clean between deck planks to clean off dirt and Sweden.

Barbecue grills, chimeneas and portable fire pits: All sources of high heat should be kept a safe distance from railing and should be placed on a grill mat or splatter guard to minimize staining and discoloration.

With any cleaning job that requires more than just water and a brush, we recommend that you try cleaning a small inconspicuous area or scrap piece of material before cleaning the entire surface area.

Power washing: Although not required, Kodiak may be power washed with a gas or electric-powered spray hose. The level of the power washer should be set no higher than 1100 pounds per square inch (PSI). A fan tip nozzle should be used along with the proper cleaning product. Spray in the direction of the brush/ grain pattern to avoid damaging the product. Use caution not to damage the material and always take the proper safety precautions when operating a power washer.

Snow and ice removal: Snow may be removed from deck surface using a non-metallic shovel. Sharp shovels that scrape or chip wood decks should not be used. While salt will not affect the structural integrity of Kodiak, it may cause stains. If using salt to break up ice patches, remove salt as soon as possible to avoid stains and scuff marks. Do not use salt/sand mixtures.

TREX®, an internationally recognized trademark of Starborn Industries, work best with Kodiak, resulting in little or no visible mushrooming.

Note: Be sure to test screens on a scrap piece of Kodiak material prior to installation.

NAIL GUNS

Because of the density of Kodiak, certain nail guns may cause problems with splitting and surface appearance. If using a nail gun, test it on a scrap piece of material. Nail guns should be used in deck boards only. Always check local building codes for proper fastening systems.

We have found that all the Swanson Titan 15G (size 15) finish nail guns, with the Senkco® FX411-P1/4”-1/2 to 11/2” nail guns, or Dewalt® 18 volt battery-powered nail gun, cause little or no surface blisters. Always check local building codes to determine if a specific nail gun is acceptable.

To avoid nail withdrawal, some deck builders prefer to use construction adhesive to affix planks to posts prior to nailing. Kodiak works well with most metal fasteners, including those containing MEX without degrading or damaging the board. Use approved adhesive for composite decking and follow manufacturer’s instructions.

Building codes

Kodiak composite products meet and exceed the acceptance criteria for the Universal Building Code’s AC-174 requirements under the International Code Council (IC) IRC-1654. It has an overall fire rating of Class C.

Proper ventilation is required

To reduce moisture build-up from beneath the deck there must be unobstructed continuous airpace along three sides of the deck to allow for proper ventilation.

• The use of a lattice panel is permitted as long as the lattice openings are at least as wide as the fascia/rim joist and not higher than 11”.

• In some limited applications, including decks built against an inside corner, additional ventilation will be required where the deck meets the building.

• Kodiak Composite Deck Plank should never be used with raised applications, on-grade applications, directly on top of or attached to a cement slab or installed directly on the ground. Failure to provide adequate ventilation may result in the failure of the product and void the warranty.

• To aid water run-off, the deck should slope 1/2” for every 8’ away from the house.

Joist spacing for new and existing frames

For both new and existing deck frames, use the following guidelines for just composite framing: Kodiak composite decking is important: Kodiak is a load bearing material but should NEVER be used for structural framing. Check your local building codes for specific information.

Residential:

• 5 1/4” board up to 16” on center.

Commercial:

• 5 1/4” board up to 12” on center.
Installing Kodiak composite deck plank to the frame
The direction of composite boards is extremely important as it relates to board shading and deck design. On the wood grain side of the board, the direction of the wood grain in the knot. Directional pattern can also be determined by the printed code on the side of the board. (Figure 3)

Lay planks in the same direction for a consistent appearance. When laid in a random pattern, composite planks will vary in shade and appearance.

Traditional Screw Installation
1. Determine the board direction and prefered deck pattern.
2. Begin installing deck boards at the outside edge of deck and working back toward the home.
3. Notch first deck plank to fit around wood posts, if necessary.
4. Install the first plank with color-coordinated screws. (Figure 4)
   - Install fasteners about 1” from the board end/edge. Predrill when at a minimum of 1” from end/edge or when outside temperature is below 50°F or lower.
   - 2. Place a Kodiak biscuit in HF deck plank groove, centered over each joist. (Figure 5)
   - 3. Drive a 2-1/4” black stainless steel screw (black head), flush to the top of each Kodiak biscuit. The screw should drive into the joist, and NOT at an angle through the board. Do not overdrive. (Figure 6)
   - 4. Slide the next HF deck plank over the exposed edge of the installed biscuit. The Kodiak biscuit will automatically space each board. Make sure the biscuit fully engages the board. (Figure 7)
   - 5. Where two boards butt over a joist, a plate joiner can be used to install a Kodiak biscuit in the end of the boards, continuing the faster-free look. Affix the biscuit as described in Steps 3 and 4.
   - 6. Repeat process until deck surface is complete. Kodiak composite should not overhang more than 2” on all exposed sides of the deck.
7. Install the final plank with color-coordinated screws.

Because of its superior flatness, Kodiak composite boards require only one screw per joist to hold the product down. If using this method, stagger screws between deck boards. Gapping allows for expansion of boards and proper water drainage.

5. Where two boards butt over a joist, a plate joiner can be used to install a Kodiak biscuit in the end of the boards, continuing the faster-free look. Affix the biscuit as described in Steps 3 and 4.

Hidden Fastener System Installation
TOOLs
Kodiak Hidden-Fastener (HF) biscuits are designed to allow easy installation—even by one person. Special tools are not required; however, we suggest the following: variable speed drill, plate joiner, 3/16” drill bit, tape measure, pencil and safety glasses.

Note: Do not use color chalk lines to mark composite decking as it may permanently stain composite material.

1. Measure and cut post cover. If installing a post cap, cut post cover at least 1/16” longer than the wood post.
2. Slide post cover over wood post. (Figure 11)
3. If using optional post cover skirt, the skirt should be slipped over the post cover prior to beginning the railing installation. Fastening the skirt with screws or nails is not recommended. Installer may use clear or color matched silicone caulking at his/her discretion. (Figures 12 & 13)

Helpful tips
- 254 biscuits required to build a deck per 100 sq ft at 12” OC, and 175 biscuits required to build a deck per 100 sq ft at 16” OC measurements.

Installing Kodiak composite railing (ICC ESR1425 Certified Rail Assembly)
The following composite rail assembly instructions may be used to build an ICC certified rail assembly ESR1425. Any other assembly has not been tested, and is, therefore, not ICC certified. When installing the 4x4 wood post to the substructure (Figure 10) refer to ICC ESR1425 for specific instructions or alternative methods.

POST COVER INSTALLATION
Kodiak composite post covers are designed to be used with a conventional 4x4 pressure-treated wood post. Never use a Kodiak post cover without a treated wood core. Wood posts should be placed a maximum of 72” on center. The minimum post height is 36” for residential applications and 42” for commercial applications. Kodiak post covers are slightly larger than wood posts to allow them to slide over the core.
1. Measure and cut post cover. Installing a post cap, cut post cover at least 1/16” longer than the wood post.
2. Slide post cover over wood post. (Figure 11)
3. If using optional post cover skirt, the skirt should be slipped over the post cover prior to beginning the railing installation. Fastening the skirt with screws or nails is not recommended. Installer may use clear or color matched silicone caulking at his/her discretion. (Figures 12 & 13)

RAILING INSTALLATION
Determine your finished rail design. For ICC approved continuous rail design, do not extend the top of the mounted baluster beyond the top of the post cap.
1. Cut baluster to desired height, pre-drill and fasten securely to post cover. If using post caps, we recommend mounting baluster lower on post cover so that top rail is no lower than the minimum code for rail height.
2. Baluster should be attached with three screws as shown. (Figure 14)

Installing Kodiak composite deck planks to stair treads
1. Begin by installing fascia board on riser face.
2. Install treads by starting at outside edge of step and work toward riser.
3. Allow 1/8” gap between treads and 1/16” gap between tread and fascia board.
4. When fastening tread to stringers, use two screws per board.

Installing Kodiak composite stair rail
1. Measure distance between posts at top and bottom of steps. Maximum distance between posts should be no more than 72” on center when measured horizontally.
2. Lay a piece of 3/4” scrap material to allow for proper spacing between the step and bottom rail.
3. Layout stair rail following steps used in “Railing Assembly.” Be sure all balusters are straight and plum. Distance between balusters must meet local building codes.
4. Attach stair rail to top and bottom posts.

Warranty
Deceuninck® North America, Inc. ensures Kodiak composite deck and railing products are manufactured in accordance with high standards and tight quality controls. Deceuninck North America, Inc. warrants, for 30 years, from the original date of installation that the covered products will not splinter, rot or suffer structural damage due to termites, insects or fungal decay. See warranty for specific information and exclusions.

Submitting a warranty claim is as easy as calling 1-877-563-4251. Warranty is subject to change without notice. For more information visit us at www.deceuninck-americas.com or contact Deceuninck North America at 1-877-563-4251.

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For info: KOD-15-0311
Installing Kodiak composite deck plank to the frame

The direction of composite boards is extremely important as it relates to board shading and deck design. On the wood grain side, the direction of the board is indicated by the direction of the wood grain in the knot. Directional pattern can also be determined by the printed code on the side of the board. (Figure 3)

1. Lay planks in the same direction for a consistent appearance. When laid in a random pattern, composite planks will vary in shade and appearance.

2. Begin installing deck boards at the outside edge of deck and working back toward the home.

3. Notch first deck plank to fit along wood posts, if necessary.

4. Install the first plank with color-coordinated screws. (Figure 4)

   **Traditional Screw Installation**

   - Fix fasteners about 1” from the board end/edge. Predrill when a minimum of 1” from end/edge or when outside temperature is below 50°F or lower.
   - Place a Kodiak biscuit in HF deck plank groove, centered over each joist. (Figure 5)
   - Drive a 2-1/4” black stainless screw (black head), flush to the top of each fastener. (Figure 6)
   - Slide the next HF deck plank over the exposed edge of the installed biscuit. (Figure 7)

   **Hidden Fastener System Installation**

   - Fix fasteners about 1” from the board end/edge. Predrill when a minimum of 1” from end/edge or when outside temperature is below 50°F or lower.
   - Place a Kodiak biscuit in HF deck plank groove, centered over each joist. (Figure 5)
   - Drive a 2-1/4” black stainless screw (black head), flush to the top of each Kodiak biscuit. (Figure 6)
   - Slide the next HF deck plank over the exposed edge of the installed biscuit. (Figure 7)

5. Continue installing deck boards across the joists, allowing a 1/8” gap toward the home.

   **Installing Kodiak composite deck plank**

   - For best appearance, miter ends at 45 degrees and overlap ends of the board.
   - Allow a 1/8” gap where boards meet. Deck boards should butt together fully engages the board. (Figure 7)
   - Five where two boards butted over a joint, a joint can be used to install a Kodiak biscuit in the end of the boards, combining the faster-free look. (Figure 8)
   - Repeat process, until deck surface is complete. (Figure 9)

   **Installing Kodiak composite railing**

   - For ICC approved continuous rail design, do not extend the top of the mounted baluster beyond the top of the post cover.
   - Cut baluster to desired height, pre-drill and fasten securely to post cover. (Figure 10)
   - Baluster should be attached with three screws as shown. (Figure 11)
   - Rail assembly installation
   - Measure the distance between posts. Cut top and bottom rails to the required length.
   - Cut the remaining balusters to desired height and pre-drill. Attach the balusters to the top and bottom rail. Balusters should be placed no more than 4” apart (5.5” on center). (Figure 12)
   - Always fasten at a 90 degree angle when attaching railings and decking. (Figure 13)

   **Installing Kodiak composite stair rail**

   - Measure distance between posts at top and bottom of steps. Maximum distance between posts should be no more than 72” on center.
   - A 1/8” gap between treads and 1/16” gap between tread and fascia board.

   **Installing Kodiak composite fascia board**

   - Cut a deck plank to desired length and attach to the top of the 4x4 post. (Figure 17)
   - Post cap: Glue cap into place on rail cover, directly above posts. When using construction adhesives, follow manufacturer’s recommendations.

   **Installing Kodiak composite stair treads**

   - Begin by installing fascia board on riser face.
   - Install treads by starting at outside edge of step and work toward riser.
   - Allow 1/8” gap between treads and 1/16” gap between tread and fascia board.

   **Installing Kodiak composite deck planks to stair treads**

   - 1. Measure distance between posts at top and bottom of steps. Maximum distance between posts should be no more than 72” on center.
   - 2. Lay a piece of 3/4” scrap material to allow for proper spacing between the step and bottom rail.
   - 3. Layout stair rail following steps used in “Rail Assembly.” Be sure all balusters are straight and plumb. Distance between balusters must meet local building codes.
   - 4. Attach stair rail to top and bottom posts.

   **Warranty**

   Deceuninck North America, Inc. ensures Kodiak composite deck and railing products are manufactured in accordance with high standards and tight quality controls. Deceuninck North America, Inc. warrants, for 30 years, from the original date of installation that the covered products will not splinter, rot or suffer structural damage due to termite, insect or fungal decay. See warranty for specific information and exclusions. Submitting a warranty claim is as easy as calling 1-877-563-4251. Warranty is subject to change without notice.

For more information see us at www.deceuninck-americas.com or contact Deceuninck North America at 1-877-563-4251.
Care and Maintenance for Kodiak® Composite Decking and Railing

Deceuninck has engineered Kodiak composite decking and railing with performance in mind. Both homeowners and contractors can appreciate the colors, comfort, durability and design flexibility that Kodiak composite decking and railing offers. To ensure its beauty will last for years, we provide you with the following care and maintenance suggestions.

Storage
Store Kodiak composite products under cover to maintain a clean surface. If stored outdoors, they must be covered with a non-translucent material. All products should be stored flat and on a dry surface. Stack units with banding and bottom supports aligned.

Handling
Although all Kodiak composite deck planks are made with low-maintenance materials, each plank’s unique features require special care and handling, ensuring lasting beauty. To maintain the beauty of Kodiak composite products please follow these important guidelines when moving and working with Kodiak composite:

- Never dump Kodiak materials when unloading.
- When carrying Kodiak deck planks, carry on edge for better support.
- Do not slide planks against each other when moving them.
- When removing them from the unit, lift the planks and set them down.
- Do not slide tools or drag equipment across the top of the planks.
- During construction, keep the surface of the planks free of construction waste to prevent damage to the planks.

Color variation
Like real wood planks, each Kodiak composite board is unique, reflecting the natural variations of wood. The distinctive wood grain of Kodiak reflects light differently depending on the direction of the grain. Together, these factors work to provide the warmth and beauty of natural wood without the hassle.

Natural weathering and color shifting
For the first few months following installation, Kodiak composite will naturally shift color as it begins to weather to a slightly lighter shade than the original color purchased. Like fine hardwood flooring, most color change will occur during the first three to six months. After this stage, Kodiak will weather consistently and beautifully. Inconsistent or uneven exposure to sun and elements will cause the deck to weather unevenly. Although this condition is temporary, you can prevent uneven exposure by not covering the deck with rugs, mats or furniture during the first few weeks.

Blooming
During the first few weeks after the composite material is exposed to the outdoors, Kodiak may experience a light brown-yellow color shift. This shift occurs because the natural wood fibers found in composite decking begin to oxidize or “bloom.” Blooming is noticed in the grey family of colors more than others. The amount of time it takes for blooming to occur varies, depending on weather conditions and exposure to direct sunlight. However, this process rarely takes longer than four weeks, after which Kodiak returns to its natural weathering process.

Staining, painting and waterproofing
Staining, painting and application of deck sealant or waterproofing is not necessary. If applied, these products will not properly bond to the surface and will flake off. In fact, the use of stains or paint will void the warranty.

Scratching and denting
Just like fine hardwood flooring or genuine cedar decking, Kodiak will scratch and dent. Care should be taken during installation to minimize scratches and damage from tools and mishandling. After installation, avoid dragging furniture, outdoor grills or other sharp objects across the surface. Keep the surface free of debris that will promote scratching. Scratches that do appear will usually weather to a consistent color, due to the product’s density and color-through formulation.

Water staining
As soon as your deck is installed, be sure to spray it with a garden hose, rinsing each board thoroughly and evenly. The first rinse will sufficiently hydrate Kodiak boards to prevent
discoloration due to uneven moisture levels or “water staining.” If this condition does occur, simply rinse evenly with water and let dry naturally. The stains will weather away in a few days.

**Splintering and rotting**
Kodiak composite decking is guaranteed not to splinter or rot. It will not split when installed according to manufacturer’s instructions.

**Slip resistance**
Kodiak meets the Americans with Disabilities Act (ADA) requirements.

**Pools and spas**
Kodiak is designed to be used in conjunction with all outdoor living activities. Chlorinated water from pools and spas will not harm Kodiak.

**Seaside installations**
Kodiak composite decking is designed to withstand seaside environments. It is the perfect choice for docks, slips and beach house decks.

**Consumer care/maintenance tips**
Dirt, Grime, Mold and Mildew Stains: As with all outdoor products, common dirt and dust should be cleaned occasionally with a garden hose or soft-bristled brush. Kodiak is a low-maintenance product, not a no-maintenance product. Kodiak products are formulated to inhibit mildew growth and minimize staining. Even if it appears clean, it is important to prevent build-up of pollen/debris. Mildew stains may occur where moisture, pollens and/or dirt are present. Mildew needs a food source to grow, which can be grass, pollens, dirt, debris wood and wood resins. Cleaners that are recommended for use with Kodiak composite are:

- **SunFrog® Composite Deck Cleaner**
- **Superdeck® Composite Deck Cleaner**
- **Corte-Clean® Composite Deck Cleaner**
- **EZ Off Composite Wood Cleaner**
- **Thompson’s® WaterSeal® Oxy Foaming Action Exterior Multi-Surface Cleaner**
- **Olympic® Oxy-Deck Cleaner**

**Rust:** Use a deck cleaner containing phosphoric acid and a commercial pressure washer (not to exceed 1100 PSI; see additional information below under power washing).

Caulking, tar, compounds and similar substances: Clean with mineral spirits in reasonable amounts, rinsing with water immediately.

**Between deck planks:** Use a plastic putty knife and gently clean between decking boards to clear debris.

**Barbecue grills, chimenaeas and portable fire pits:** All sources of high heat should be kept a safe distance from railing and should be placed on a grill mat or splatter guard to minimize stains.

With any cleaning job that requires more than just water and a brush, we recommend that you try cleaning a small inconspicuous area or scrap piece of material before cleaning the entire surface area.

**Power washing:** Although not required, Kodiak may be power washed with a gas or electric-powered spray hose. The level of the power washer should be set no higher than 1100 pounds per square inch (PSI). A fan tip nozzle should be used along with the proper cleaning product. Spray in the direction of the brush/grain pattern to avoid damaging the product. Use caution not to damage the material and always take the proper safety precautions when operating a power washer.

**Snow and ice removal:** Snow may be removed from deck surface using a non-metallic shovel. Sharp shovels that scrape or chip wood decks should not be used. While salt will not affect the structural integrity of Kodiak, it may cause stains. If using salt to break up ice patches, remove salt as soon as possible to avoid stains and scratches. Do not use salt/ash mixtures.

**IMPORTANT FIRE SAFETY INFORMATION**
Kodiak Composite Decking and Railing materials require little maintenance for many years. Nevertheless, common sense dictates that builders and suppliers of composite decking products store, handle and install materials in a manner that avoids damage to the product and/or structure. Owners and Installers should take a few simple steps to protect deck and rail materials from fire and significant sources of heat.

To the home and building owner
Composite decking and railing products are made from organic material and will melt or burn when exposed to a significant source of flame or heat. Building owners, occupants and outside maintenance personnel should always take normal precautions to keep sources of fire and combustible materials such as dry leaves, mulch and trash away from deck and rails.

- **Barbecue grills:** Barbecue grills should be kept a safe distance from railings and should be placed on a grill mat or splatter guard.

To the building trades, specifiers, professional and do-it-yourself installers
When composite decking and railing products are exposed to significant heat or flame, the materials will soften, sag, melt, or burn. All decking and railing materials should be installed in accordance with local, state and federal building codes and fire regulations.

For more information, visit [www.deceuninck-americas.com](http://www.deceuninck-americas.com), call 1.877.563.4251 or e-mail support@deceuninck-info.com.