



Installation & Care Guide

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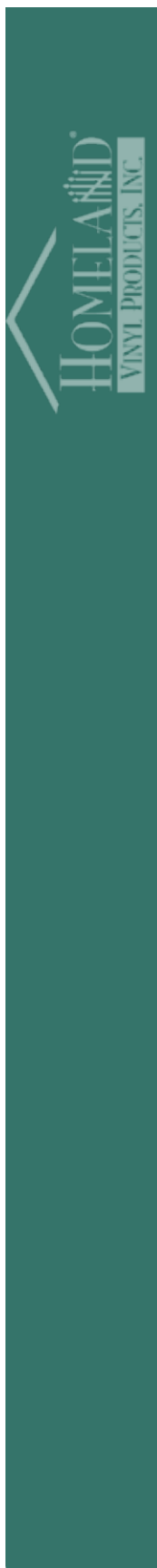
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Section I: General Information

Gorilla® Wood is designed to resemble natural wood while offering enhanced durability and resistance to common issues associated with natural wood decking. It replicates the natural variation in real wood, including slight color and grain pattern differences from board to board. This intentional aesthetic variation is part of the manufacturing process, giving Gorilla® Wood a realistic and wood-like appearance. Importantly, this variation is purely aesthetic and does not affect the product's performance.

Unlike wood decking, Gorilla® Wood is engineered to resist splitting, splintering, and structural damage caused by termites or fungal decay. It provides a low-maintenance option that retains its appearance and performance over time. Gorilla® Wood also maintains its dimensions regardless of changes in humidity and moisture levels, unlike natural wood that can expand, contract, or warp under varying moisture conditions.

Like many other building materials, Gorilla Wood® will undergo expansion and contraction along its length with temperature changes. This means that the boards may slightly expand in hot weather and contract in cold weather. The extent of expansion and contraction will be more noticeable with more significant temperature variations.

As Gorilla® Wood expands and contracts, slight gaps may appear at the end of the boards or in spliced joints. This is a regular occurrence and should be expected. Proper installation techniques, such as leaving adequate spacing between boards during installation, can help accommodate these natural movements and minimize the appearance of gaps.

Overall, Gorilla® Wood offers the appearance of natural wood with added durability and resistance to common wood-related issues. It is designed to withstand environmental factors and provide a durable, low-maintenance decking option for construction projects.

Safety:

Safely installing Gorilla® Wood prevents accidents and ensures a secure and stable deck structure. Here's a safety guideline when installing Gorilla® Wood:

- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses, gloves, hearing protection, and sturdy footwear, to protect yourself during the installation process.
- **Work Area Preparation:** Clear the work area of any obstacles, debris, or potential tripping hazards. Ensure a clean and organized workspace to minimize the risk of accidents.
- **Tools and Equipment:** Use the right tools and equipment for the job and ensure they are in good working condition. Follow the manufacturer's instructions for safe tool operation.
- **Lifting and Handling:** Use proper lifting techniques when lifting Gorilla® Wood. The deck boards are heavier and more flexible than standard lumber. Lift with your legs, not your back, and ask for assistance if needed. Avoid overexertion and potential injuries.
- **Structural Integrity:** Ensure that the deck's underlying structure, including support posts, beams, and joists, is sound and capable of supporting the weight load of the deck boards and anticipated use. If needed, consult a professional to assess the structural integrity.

Safety: (Continued)

- **Fasteners:** Use appropriate fasteners recommended by Homeland Vinyl Products, Inc, following guidelines for fastener spacing and installation to ensure a secure attachment of the deck boards.
- **Safe Installation Techniques:** Follow proper installation techniques, such as aligning and positioning the deck boards correctly, maintaining consistent spacing between boards, and securely attaching them to the underlying structure. Avoid using damaged or warped boards that may compromise safety.
- **Working at Heights:** If working at heights, use proper safety measures, such as installing temporary guardrails and scaffolding or wearing a harness and safety line. Follow local safety regulations and guidelines for working at heights.
- **Weather Conditions:** Consider weather conditions during the installation process. Avoid working on the deck during inclement weather or when surfaces are wet and slippery, as this can increase the risk of accidents.
- **Regular Inspections:** Inspect the completed deck for any signs of damage, loose boards, or protruding screws. Perform routine maintenance to ensure the deck remains safe and structurally sound.

Always prioritize safety during Gorilla® Wood installations and, if necessary, consult professional contractors or experts for guidance to ensure a safe and successful installation.

Tools:

During the installation of Gorilla® Wood installation, it is essential to prioritize safety. Just like with wood or composite decking, wearing safety glasses is recommended throughout the installation process to protect your eyes from potential hazards.

In terms of the tools used for installing Gorilla® Wood, individuals should use woodworking tools commonly employed for wood or composite decking can be utilized. Some essential tools include:

- Chalk Line
- Line Level
- Tape Measure
- Carpenter's Square
- Pencil

Drills:

Install Homeland Vinyl Product, Inc.'s recommended fasteners with standard power drills and impact drivers (proceed with caution if using impact drivers) or right-angle drills.



Tools: (Continued)

Saws:

Miter Saw: We recommend using a carbide-tipped blade with 60 teeth or more when using a miter saw.



Jigsaw: A jigsaw with a carbide-tipped blade may be used for detailed, minor cuts (i.e., cutting the deck board to fit around a post).



Circular Saw: When using a circular saw to cut Gorilla® Wood or Gorilla® Fascia board, ensure the saw is straight through the cut to avoid chipping the Gorilla® Wood or Gorilla® Fascia boards. Maintaining a straight line while cutting can minimize the risk of damage and achieve cleaner, more precise cuts. Use appropriate safety precautions and follow the manufacturer's instructions when operating power tools.



Specific Deck Board Tools:

Self-Feeding Screw Guns: Some Homeland Vinyl Products, Inc. recommended deck fasteners are compatible with self-feeding screw guns. Refer to that specific manufacturer's recommendations for proper use.



Care and Cleaning:

To keep your Gorilla® Wood clean and well-maintained, follow these cleaning and maintenance guidelines:

- **Regular Cleaning:** Clean your deck with warm soapy water or ordinary household cleaning products to remove stains, dirt, and debris. This can be done using a soft brush or sponge.
- **Power Washing:** While power washing is not required for Gorilla Wood, it can be done if desired. If using a power washer, set the pressure no higher than 1100 PSI (pounds per square inch). Use a fan tip nozzle and direct the spray toward the woodgrain pattern. Maintain a minimum distance of 12 inches from the deck surface.
- **Chemicals and Compatibility:** Some products, such as sunblock and insect repellent, may contain chemicals that can alter the surface of Gorilla® Wood. Check product labels and consult the manufacturer to ensure compatibility with plastic materials like Gorilla® Wood. Avoid using rubber-backed mats, tarps, pool toys, or other non-porous items on the deck for extended periods, as they can cause discoloration.
- **Ice Removal:** Most calcium chloride products can be used without damaging the deck surface. These products may leave a white residue, which can be cleaned using the earlier guidelines.

PVC Product Cleaners: General cleaners like Simple Green® can clean dirt, bird droppings, and spider webs from PVC products. For specific stains, refer to the following cleaners:

- Food oils, grease, ketchup, mustard, red wine, coffee: Warm soapy water.
- Gum, grass, car grease: Fantastik®, Lestoil®, Lysol®.
- Motor oil, rust, topsoil: Murphy® Oil Soap, Windex®.
- Crayon: Lestoil®.
- Oil-based caulk (e.g., DAP): Fantastik®.
- Felt-tip pen, paint, pencil, tar: Brillo® Pad, Soft Scrub®.

**Please note that the information provided is intended as a general guideline for the care and maintenance of Gorilla Wood, but it may not cover every possible scenario. If you have specific questions or need further assistance regarding the care and maintenance of your Gorilla Wood deck, it is recommended to contact your Gorilla Wood representative. They will be able to provide you with more specific information based on your unique circumstances and requirements.*

Additionally, it is essential to understand that mentioning specific cleaning products is for illustrative purposes only. Homeland Vinyl does not endorse or provide warranties for any particular products mentioned. The reference to proprietary names does not imply endorsement or exclusivity, and equally effective alternatives may be available in the market. It is always advisable to test a small, hidden area of your deck before using any product not listed or recommended by the manufacturer. This will help ensure compatibility and avoid any potential damage or undesired effects. Always follow the instructions and guidelines the manufacturer provides for cleaning products on your Gorilla® Wood deck boards and Gorilla® Wood Fascia boards.



Care and Cleaning: (Continued)

Storage:

To ensure proper handling and storage of Gorilla® Wood, please follow these guidelines:

- Store Gorilla® Wood on a flat and level surface.
- Avoid stacking bundles over eight units high to prevent instability.
- Leave the factory-applied protective wrap on the product whenever possible to shield it from dirt and debris.
- Remember that Gorilla® Wood is more flexible than wood, so exercise additional caution when handling the material.
- When using a forklift, handle the product with care to prevent any damage. The forks of the forklift can easily cause harm to the material.
- If banding is utilized during storage or transportation, use protective corners to avoid indents from the bands.

Adhering to these recommendations ensures your Gorilla® Wood product's proper handling, storage, and protection.

Section II Planning Ahead:

Important Information:

For the most up-to-date Installation & Care Guide version, please visit the website: www.homelandvinyl.com.

The installation of Gorilla® Wood decking should adhere to industry-standard building practices used for wood or composite decking. It must comply with local building codes and the guidelines provided in this document.

Homeland assumes **NO LIABILITY** or **RESPONSIBILITY** for improper installations of this product. Installers are responsible for ensuring that Gorilla® Wood is suitable for its intended use, as the product may not be ideal for all applications.

As each installation and application is unique, installers are solely responsible for determining specific requirements for each deck. It is recommended that a licensed architect, engineer, or local building official review all designs before installation.

Homeland **DOES NOT** recommend using rubber or vinyl products such as welcome mats or planters on Gorilla® Wood decking. A reaction may occur that causes discoloration of the decking under these materials. This caution is standard for vinyl decking products.

Heat Build-Up Considerations:

Fire pits should be kept away from Gorilla® Wood decking, as the heat, ashes, or embers may cause the deck surface to melt or deform.

In common with many other outdoor surfaces, Gorilla® Wood, including wood decking and other composite decking brands, can become hot when exposed to weather and sunlight. It is essential to exercise caution on hot days to prevent prolonged skin contact with the deck surface, particularly for young children and individuals with special needs. Note that darker-colored decks retain more heat and feel hotter than lighter-colored decks. Consumers should consider selecting a lighter color for their decking in hotter climates to help mitigate heat absorption.

It is essential to exercise caution when installing decking near Low-E windows. Low-E glass, which reflects more sunlight, can create a mirror effect when combined with any concavity in the glass. This mirror effect can potentially concentrate sunlight onto outdoor objects, including decking and railing. As a result, excessive heat may be focused on specific areas of the decking surface. In some cases, this concentrated heat can cause premature discoloration, warping, or slight bowing of the Gorilla® Wood decking. It is advisable to be aware of this phenomenon and take appropriate measures, such as using shading devices or adjusting the positioning of the decking, to minimize the impact of concentrated heat from Low-E windows.

**Possible damage by these types of heat sources, or sources of reflected concentrated light, may include melting, sagging, warping, distortion, surface discoloration, increased expansion or contraction, and unusual weathering. Such damage is NOT covered by warranty.*



Important Information (Continued)

Please take note of the following important information regarding the installation and use of Gorilla® Wood:

- **Sanding:** Sanding Gorilla® Wood will alter its appearance and may remove the protective cap stock layer, voiding the product warranty. Therefore, sanding is NOT recommended.
- **Routing:** Routing is also not recommended for Gorilla® Wood decking, as it can compromise the protective cap stock layer and void the warranty.
- **Avoid Glue or Caulk:** Do not use glue or caulk to fasten Gorilla® Wood or seal the joints between deck boards and other surfaces. This restricts the natural expansion and contraction of the boards and impedes proper drainage. It is crucial to allow the deck boards to move and drain freely. (Note: An exception may exist for affixing the Gorilla® Wood Fascia board, as specified on page 19 of the product documentation.)
- **Load-Bearing Limitations:** Gorilla® Wood is **NOT INTENDED** for use as columns, support posts, beams, joist stringers, or other primary load-bearing members. It **MUST** be supported by a code-compliant substructure that meets all applicable building codes and regulations.
- **Refurbishing Projects:** Gorilla® Wood is suitable for refurbishing projects where old deck boards are replaced with Gorilla® Wood. However, as with any new deck, a code-compliant substructure is necessary. Gorilla® Wood **CANNOT** be installed directly on top of existing deck boards.

These guidelines are essential to ensure the proper installation, performance, and durability of your Gorilla® Wood decking. Reviewing the complete product documentation and consulting with professionals for any specific questions or concerns is recommended.

Railing:

When installing Nexus® or Summit® guardrail systems, including ADA handrail, follow these steps:

- Select the guardrail style that you prefer.
- Calculate the spanning distance based on the guardrail style you have chosen.
- Determine the number of balusters required based on the selected guardrail system.

Essential considerations for post placement on stairs:

- When installing guardrails on stairs, it is crucial to plan the post spacing based on the length of the rail and the angle of the stairs.
- For nominal 6ft (1828.8mm) and 8ft (2438.4mm) stair rail lengths, the span between stair posts (measured horizontally) will be less than 6ft (1828.8mm) or 8ft (2438.4mm) due to the angle of the stairs.
- These guardrail types are designed to be installed at a maximum of 6ft (1828.8mm) or 8ft (2.4m) on centers, depending on the chosen Nexus® or Summit® guardrail system.
- It's important to note that these guardrails are not precisely 6ft (72in / 1828.8mm) or 8ft (96in / 2438.4mm) in length.
- Nexus® and Summit® products are designed to be installed with a clear 6ft (1828.8mm) or 8ft (2438.4mm) span between posts.

Additional guidelines for guardrail system installation:

Determine the post locations before installing any decking. In most cases, posts are installed before decking. Consult with your local building official to determine if ADA Handrail is required for your project. If ADA Handrail is necessary, plan the post spanning accordingly. ADA Handrail typically involves a span of 6ft (1828.8mm) on the center for posts.

Section III Gorilla® Wood Deck Board and Gorilla® Wood Fascia Board

Colors:



Gorilla® Wood and Gorilla® Wood Fascia Item Keys:



Item Key Explanation:

Color Codes			
L = Light Gray	F = Dark Gray	D = Adobe	C = Chestnut

Profile Example	Profile Code	Color Code	Length In Inches / mm	Pieces Per Bundle
Gorilla® Wood	F7A1	D	288 / 7315.2mm	060
Item Key	F7A1D288060			

Profile Example	Profile Code	Color Code	Length In Inches / mm	Pieces Per Bundle
Gorilla® Wood Fascia	F7A2	D	144 / 3657.6mm	040
Item Key	F7A2D144040			

Refer to the profile sheet within Homeland Vinyl's Catalog to obtain the profile code for the product you are ordering.

Always review your order confirmation with descriptions to ensure order accuracy.

Visit <http://homelandvinyl.com/catalog/> for more information.

Gorilla® Wood Deck Board & Gorilla® Wood Fascia Board Recommended Fasteners and Hidden Fasteners

TABLE 1—ALLOWABLE MAXIMUM SPAN LOAD-SPAN RATING AND WIND UPLIFT CAPACITIES

DECK BOARD	FASTENING SCREWS	Fastener Orientation	MAXIMUM SPAN (inch)	ALLOWABLE LOAD-SPAN RATING (psf)	WIND UPLIFT CAPACITY (psf)	
					12-inch o.c. framing	16-inch o.c. framing
1" x 5 1/2" Gorilla Deck Board	No. 10 x 2 3/4" CAP-TOR xd Epoxy coated	Face Installation	16	100	460 ^{3,4}	490 ^{3,5}
	No. 9 x 2 1/2" Grip Rite Type 17 point star drive	Face Installation	16	100	470 ^{3,4}	500 ^{3,5}
	No. 9 x 2 1/2" Kameleon GRK	Face Installation	16	100	480 ^{3,4}	510 ^{3,6}
	No. 7 x 2 3/8" CAMO Edge	Angled Edge Installation ⁶	16	100	480 ^{3,4}	510 ^{3,5}

For SI: 1 inch = 25.4mm, 1 psf = 47.9 Pa.

¹ Maximum span must be measured center-to-center of the supporting construction.

² Maximum allowable capacity has been adjusted for durability. No further increases are permitted.

³ The tabulated wind uplift capacity values are based on test results with a factor of safety of 3.0.

⁴ The tabulated wind uplift capacity values are for deck boards installed perpendicular to framing and up to an angle of 45 degree.

⁵ The tabulated wind uplift capacity values are for deck boards installed perpendicular to framing.

⁶ Angled edge installation screws must be installed using installation tool provided by the screw manufacturer.

TABLE 2—MAXIMUM STAIR TREAD SPAN

DECK BOARD	FASTENING SCREWS	SPAN CONDITION	MAXIMUM SPAN (in.) ^{1,2}
1" x 5 1/2" Gorilla Wood Deck Board	No. 10 x 2 3/4" CAP-TOR xd Epoxy coated	Two-span	12

¹ Maximum span is the center-to-center distance of the supporting stair stringers.

² Deck boards must be installed at 90-degree angle to the supporting stair stringers.



No. 9 x 2-1/2" Grip Rite® Deck Screw



No. 7 x 2-3/8" CAMO® Angled Edge Deck Screw



No. 9 x 2-1/2" Kameleon™ GRK Deck Screw



No. 10 x 2-3/4" Starborn® CAP-TOR® xd Screw

PRO PLUG® SYSTEM for PVC

Integrated Plug Fastening System for PVC Decking and PVC Trim

Pro Plug® System for PVC is a superior and easy-to-install plug fastening system for PVC Decking and PVC Trim. The system is available for a broad range of decking and trim materials, with epoxy coated or stainless steel fasteners in a full range of sizes—giving builders the ability to choose the right screw for a wide variety of applications.

The system features the PVC Tool (which drives screws to the correct depth without stripping the screw recess or damaging the deck board surface), star drive fasteners in both epoxy coated carbon steel and stainless steel (Grade 305 and Marine Grade 316), and plugs made from actual deck and trim material.

Approved for use with ACO treated lumber. Follow the decking or trim manufacturer's recommendation when selecting either stainless or epoxy coated screws. For applications exposed to salt air, near large bodies of water, swimming pools or other areas where corrosion is more likely to occur, use Marine Grade 316 Pro Plug System for PVC stainless steel fasteners.



Starborn Industries, Inc. | 45 Mayfield Ave. Edison, NJ 08837 | 800.596.7747 | info@starbornindustries.com | www.starbornindustries.com

Homeland Vinyl Products Inc. offers the Starborn® Pro Plug® System for PVC decking. The Pro Plug® System is a hidden fastening system designed explicitly for PVC decking materials, providing a clean and seamless look to the deck surface. Here's how the system typically works:

Pre-drilling:

- Start by drilling a hole into the deck board using the Pro Plug® System PVC Decking and Trim Tool. This tool ensures precise and consistent hole placement for the plugs.

Placing the screw:

- Insert a stainless steel or epoxy screw into the pre-drilled hole and drive it through the deck board and into the substructure below. The screw is designed to hold the deck board securely in place.

Installing the plug:

- After the screw is driven in, a PVC/Composite Pro Plug® is placed into the hole over the screw head. The plug is color-matched to the Gorilla® Wood decking material, providing a seamless appearance.

Flushing the plug:

- Use the Pro Plug® PVC/Composite Tool to gently tap the plug until it is flush with the deck board surface. This creates a smooth and even deck surface without visible screw heads.



Gorilla® Wood Deck Board & Gorilla® Wood Fascia Board Recommended Fasteners and Hidden Fasteners - (Continued)

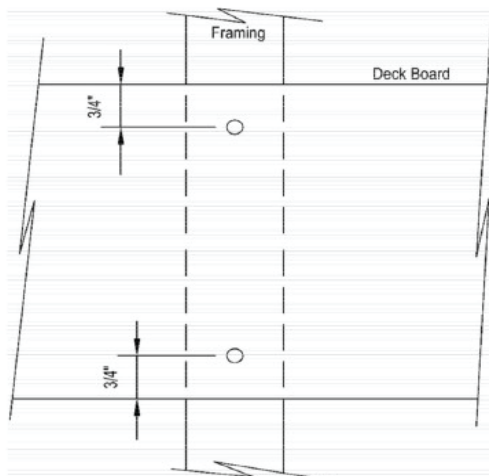
The Starborn® Pro Plug® System offers an efficient and effective way to secure PVC decking boards while maintaining an attractive, fastener-free look. The plugs are available in Gorilla® Wood colors to match the Gorilla® Wood decking material, ensuring a cohesive and professional finish.

Following the manufacturer's instructions and guidelines for the Starborn® Pro Plug® System is essential to ensure proper installation and optimal performance.

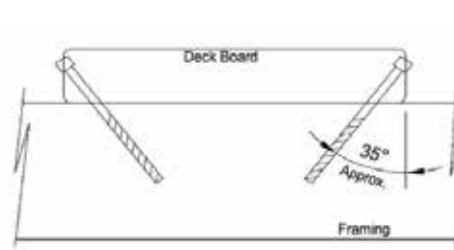
Homeland Vinyl Products, Inc. Starborn® Pro Plug® System for Gorilla® Wood Deck Boards and Gorilla® Wood Fascia Board.

Starborn® Pro Plug® System			
Item Key	Color	Screw Type	Description
GWPLGKL100-EP	Light Gray	Epoxy	1 Tool, Screws, and Color Plugs for 100 LF (30.48m)
GWPLGKL100-SS	Light Gray	Stainless Steel	1 Tool, Screws, and Color Plugs for 100 LF (30.48m)
GWPLGKF100-EP	Dark Gray	Epoxy	1 Tool, Screws, and Color Plugs for 100 LF (30.48m)
GWPLGKF100-SS	Dark Gray	Stainless Steel	1 Tool, Screws, and Color Plugs for 100 LF (30.48m)
GWPLGKA100-EP	Adobe	Epoxy	1 Tool, Screws, and Color Plugs for 100 LF (30.48m)
GWPLGKA100-SS	Adobe	Stainless Steel	1 Tool, Screws, and Color Plugs for 100 LF (30.48m)
GWPLGKC100-EP	Chestnut	Epoxy	1 Tool, Screws, and Color Plugs for 100 LF (30.48m)
GWPLGKC100-SS	Chestnut	Stainless Steel	1 Tool, Screws, and Color Plugs for 100 LF (30.48m)

Installation of Gorilla® Wood Deck Board with Face Installation



Installation of Gorilla® Wood Deck Board with Angled Edge Installation



Decking Substructure:

For a proper deck installation using Gorilla® Wood, it is essential to follow these guidelines:

- If you use Gorilla® Wood on an existing joist structure, carefully inspect them to ensure they are level, structurally sound, and free from protruding nails or screws. Make any necessary repairs or adjustments before installing the deck boards.
- Proper joist spacing is essential for the successful installation of the deck. Follow the recommended joist spacing guidelines provided by Gorilla® Wood. The specific joist spacing requirement may vary depending on the Gorilla® Wood product you are using and the local building codes. Consult the product documentation or contact Gorilla Wood for the recommended joist spacing for your specific project.
- To achieve the correct joist spacing, measure and mark the desired spacing on the ledger board or the beams. Typically, the spacing is measured from the center of one joist to the center of the next. Use a tape measure, carpenter's square, or other appropriate measuring tool to ensure accuracy.
- Secure the joists in place according to the recommended fastening method provided by Gorilla® Wood using Homeland Vinyl's recommended fasteners. Ensure that the joists are securely attached to the supporting structure.
- Double-check the joist spacing after installation to ensure it meets the recommended guidelines. Make any necessary adjustments if the spacing is not accurate.

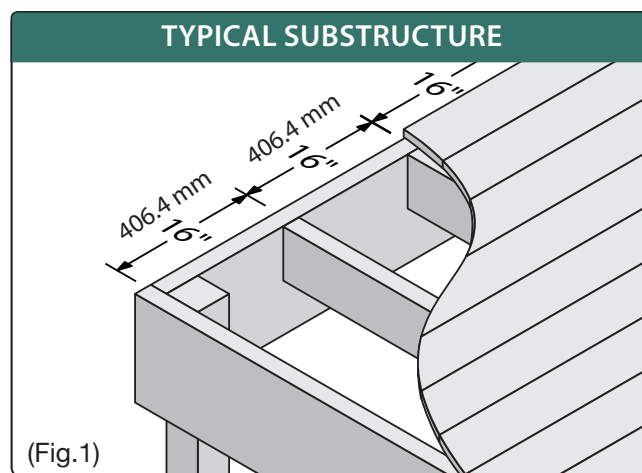
Proper joist spacing is crucial for the stability and longevity of the deck. It ensures that the deck boards are adequately supported and minimizes the risk of sagging or structural issues. Following the manufacturer's guidelines and local building codes will help you achieve a safe and durable deck installation.

Typical Substructure:

For proper installation of Gorilla® Wood, follow these guidelines for joist spacing:

- Residential applications: Install Gorilla® Wood 16" (40.64cm) on-center joist spacing.
- Enhanced performance: Opt for 12" (30.48cm) on-center joist spacing for improved support.
- Commercial applications: 12" (30.48cm) on-center joist spacing is REQUIRED for durability and stability.

These joist spacing recommendations will ensure a sturdy and long-lasting Gorilla® Wood deck. Always consult local building codes and any additional guidelines provided by Gorilla® Wood for your specific project. For more information, see (Fig.1)

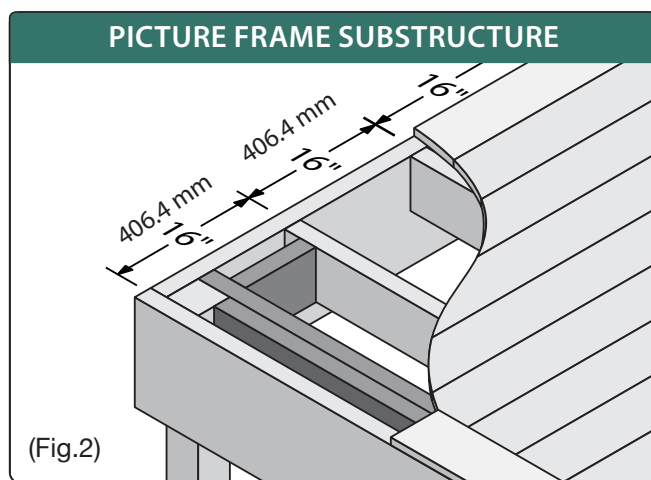


Picture Frame Substructure:

When using a "picture frame" installation technique for Gorilla® Wood deck boards, where the boards are installed in a frame-like pattern around the perimeter of the deck, it's essential to ensure proper substructure support. The joist spacing for the picture frame section should be the same as the typical substructure installation for the deck. However, you must also provide additional support for the picture frame structure.

- Install the main substructure: Follow the recommended joist spacing and installation guidelines for the main substructure of the deck. This involves installing the joists at the designated spacing, ensuring they are level and properly secured to the beams or posts.
- Add additional supports for the picture frame: Install additional joists within the picture frame section parallel to the outer edge of the deck. These joists should be placed at the same spacing as the rest of the substructure. They can be secured to the main joists or attached to additional beams or posts, depending on the overall design of your deck.
- Secure the additional supports: Ensure all the joists within the picture frame section are securely fastened using appropriate hardware, such as joist hangers or screws. This will help maintain structural integrity and prevent any movement or sagging of the picture frame structure.
- Install the deck boards: Once the substructure and additional supports are in place, you can proceed with installing the deck boards. The picture frame section will provide a solid framework for the deck boards installed in a perpendicular pattern, creating an attractive border around the deck's perimeter.

Remember to follow Homeland Vinyl's recommendations and local building codes throughout construction to ensure a safe and durable deck. For more information, see (Fig.2)



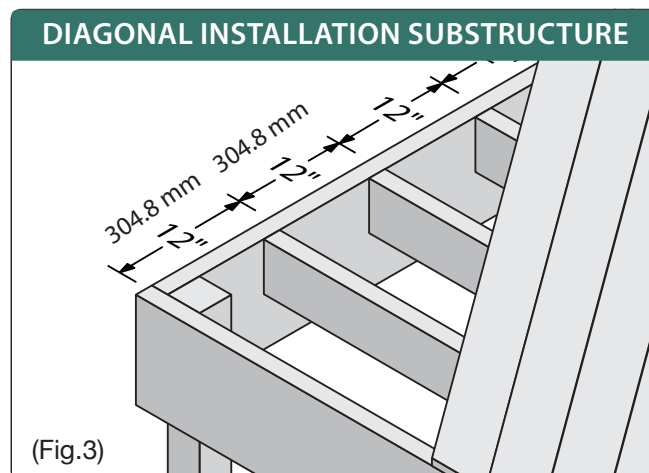
Diagonal Installation Substructure:

When installing deck boards in a diagonal or herringbone pattern, it's essential to adjust the substructure to accommodate the angle and provide proper support. For Gorilla® Wood decking, installing the substructure with joists spaced at 12" (30.48cm) on-center is recommended.

Here's how you can create the substructure for diagonal or herringbone deck board installation:

- **Determine the joist spacing:** Check Homeland Vinyl's recommendations for Gorilla® Wood decking to determine the required joist spacing. In this case, the recommended joist spacing is 12" (30.48cm) on-center.
- **Plan the substructure:** Calculate the layout and dimensions of your deck, considering the diagonal or herringbone pattern. Determine the location and orientation of the joists based on the 12" (30.48cm) on-center spacing.
- **Install the main substructure:** Install the main joists according to the planned layout. Ensure the joists are level and properly secured to the beams or posts. The spacing between the joists should be 12" (30.48cm) on-center.
- **Additional supports:** In addition to the main joists, you may need additional supports to ensure proper stability and load distribution for the diagonal or herringbone pattern. This could include additional joists or blocking between the main joists to provide extra support.
- **Secure the substructure:** Use appropriate hardware, such as joist hangers or screws, to fasten the substructure members securely. This will ensure the overall stability and structural integrity of the deck.
- **Install the diagonal or herringbone deck boards:** Once the substructure is in place, you can install the deck boards in the desired pattern. Cut the boards at the appropriate angles to fit the diagonal or herringbone layout and secure them to the joists using Homeland Vinyl's recommended fasteners.

Always refer to the specific installation guidelines provided by Gorilla® Wood to ensure that you follow the recommended practices for your deck's best performance and longevity. Additionally, compliance with local building codes and regulations during construction is essential. For more information, see (Fig.3)

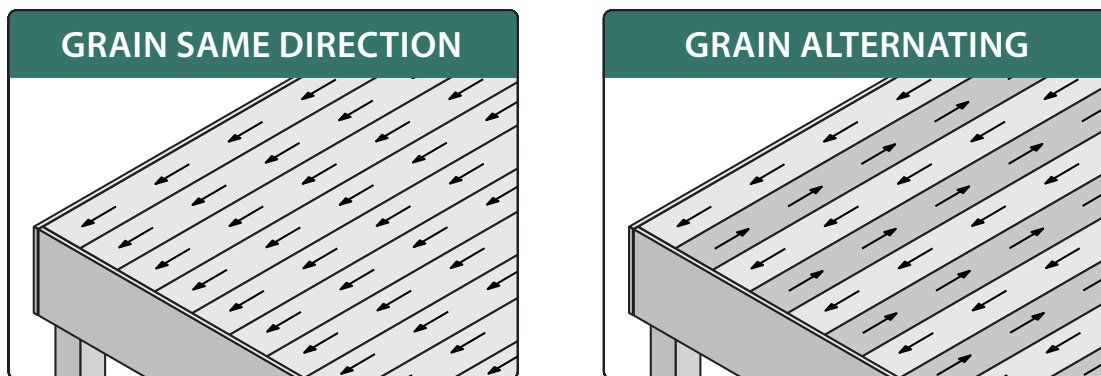


Gorilla® Wood Installation Instructions:

To ensure the proper installation and performance of Gorilla® Wood deck boards, it's important to consider positioning, grain orientation, expansion and contraction, and gapping requirements. Here are the guidelines to follow:

Positioning and Grain Orientation:

- Before installation, plan and select the general position of the Gorilla® Wood boards. Consider the overall design and layout of the deck. Decide whether the grain pattern of each board will run in the same or alternating directions, as this can create interesting patterns.
- Gorilla® Wood deck boards are one-sided and should be installed with the wood grain side facing up as the walking surface. This provides a natural and visually appealing appearance. For more information, see (Fig.4)



(Fig.4)

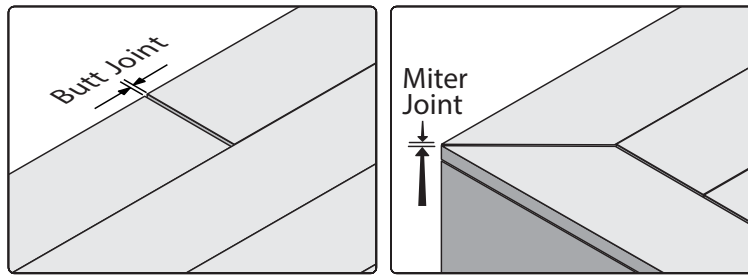
Expansion, Contraction, and Gapping Requirements:

- Temperature-related expansion and contraction: Gorilla Wood expands and contracts with temperature changes. It is essential to account for this movement during installation, especially in areas with extreme temperature fluctuations.
- Allowing for natural expansion and contraction and leaving appropriate gaps between the boards, joints, and other structural components is recommended. The specific gap size will depend on Homeland Vinyl's recommendations and local climate conditions. Consult the guidelines for the recommended gap size for Gorilla® Wood Deck boards.
- Expansion and contraction can result in slight gaps, which may be noticed at the ends of boards or in splice joints. This is normal. Properly spacing the boards and allowing for gaps will help prevent buckling or warping. For more information, see (Fig.5, 6, & 7)

Gorilla® Wood Installation Instructions (Continued)

- Follow the recommended spacing between butt joints for Gorilla® Wood Fascia boards.

Gorilla® Wood Deck Board Butt Joint and Miter Joints Gapping Requirements			
Fahrenheit:	$\leq 32^{\circ} \text{ F}$	$33^{\circ} \text{ F to } 74^{\circ} \text{ F}$	$75^{\circ} \text{ F} +$
Degree Celsius:	$\leq 0^{\circ} \text{ C}$	$0.5^{\circ} \text{ C to } 23.3^{\circ} \text{ C}$	$23.3^{\circ} \text{ C} +$
Gap Required:	1/4" (6.35mm)	1/8" (3.175mm)	No gap required



(Fig.5)

Side-by-Side Spacing Between Deck Boards	Spacing Between any Adjoining Structure or Post
1/8" to 3/16" (3.2 mm x 4.8 mm)	3/16" (4.8 mm)
<p>Side by Side Spacing</p>	<p>Structures & Posts</p>

(Fig.6)

(Fig.7)

Timely installation after cutting:

- Gorilla® Wood should be installed as soon as possible after cutting. If the boards are left outside in cool air overnight, they may contract slightly by morning. Installing them promptly after cutting helps ensure the best possible fit.

Ambient temperature consideration:

- Use the ambient temperature to determine the appropriate gaps between joints, deck boards, and other structural components. Different temperature conditions may require different gap sizes. Follow the manufacturer's guidelines and local building codes for the best results.

Gorilla® Wood Installation Instructions (Continued)

When fastening Gorilla® Wood decking, you have the option of using hidden fasteners or standard fasteners. Here are the guidelines for each method:

Fastening Gorilla® Wood Deck boards with Hidden Fasteners:

- Refer to the instructions provided by the hidden fastener manufacturer for proper installation. Each hidden fastener system may have specific instructions and requirements.

Fastening Gorilla® Wood Deck boards with Standard Fasteners:

- Use recommended stainless steel or exterior grade coated (epoxy) deck screws.
- Install the fasteners perpendicular to the deck board surface and drive them so they are flush with the surface. Avoid overdriving the screws, as this can damage the deck board.
- Fasten the boards 3/4" (19.05mm) from the outside edges, using two fasteners per joist, including end joists.
- No pre-drilling is required for Gorilla® Wood Deck boards.
- Ensure that the ends of boards, splices, or abutments are securely fastened to buildings or structures using two screws positioned within 1/2" (12.7mm) of each board end or joint.
- Some local building codes may require double joists when joining boards end to end. Always consult your local code authority for specific requirements before installation.

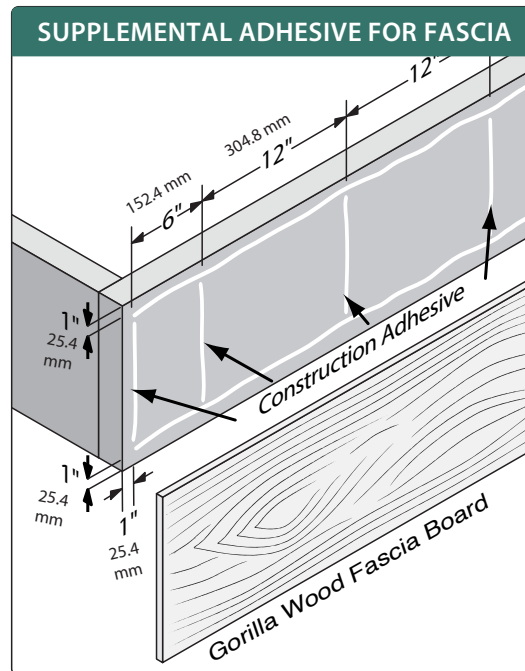
By following these guidelines, you can ensure a secure and proper installation of Gorilla® Wood decking. It's essential to consult the specific instructions provided by the fastener manufacturer and comply with local building codes to ensure compliance and optimal performance.

Gorilla® Fascia Board Installation Instructions

When installing Gorilla® Wood Fascia boards for a professional and finished look on your deck, follow these guidelines:

- Attach Gorilla® Wood Fascia board to a solid backer: Use a solid backer that is wide enough to support the entire width of the fascia board. Utilizing standard commercial wood sizes 2" x 12", 2" x 10", and 2" x 8" rim board or rip-cut rim, a joist cover can be used for this purpose. Make sure the fascia board is securely attached to the backer with the open/cut edges up underneath the over hanging Gorilla® Wood deck boards.
- You can use the Gorilla® Wood Fascia board to cover the ends of the deck boards on the deck surface. Ensure a 3/16" (4.7625mm) gap is allowed between the Gorilla® Wood Fascia board and the Gorilla® Wood deck boards. Refer to the "Spacing Between any Adjoining Structure or Post table" for specific guidelines.
- In addition to high-quality screws, use an exterior-rated construction adhesive engineered with PVC (low modulus) to install the Gorilla® Wood Fascia boards. This combination of screws and construction adhesive helps mitigate the effects of expansion. For more information, see (Fig.1)

(Fig.1)



- Follow the recommended spacing between butt joints for Gorilla® Wood Fascia boards.

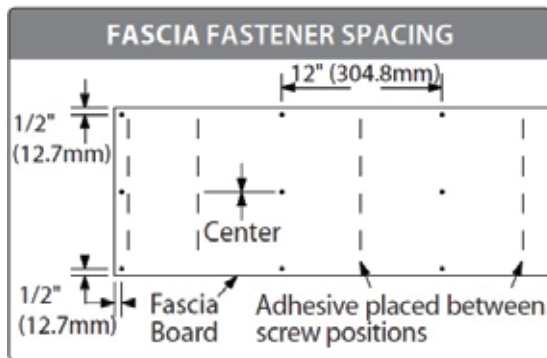
Gorilla® Wood Deck Board Butt Joint and Miter Joints Gapping Requirements			
Fahrenheit:	≤ 32° F	33° F to 74° F	75° F +
Degree Celsius:	≤ 0° C	0.5° C to 23.3° C	23.3° C +
Gap Required:	1/4" (6.35mm)	1/8" (3.175mm)	No gap required

- When driving screws into the fascia board, ensure they are flush with the surface of the fascia board. This creates a neat and professional appearance.



Gorilla® Fascia Board Installation Instructions (Continued)

- Install three screws from top to bottom, with the top and bottom screws positioned 1/2" (12.7mm) from the edge of the fascia board. The third screw should be approximately centered in the fascia board. Repeat this screw configuration every 12 inches (304.8mm). For more information, see (Fig.2)

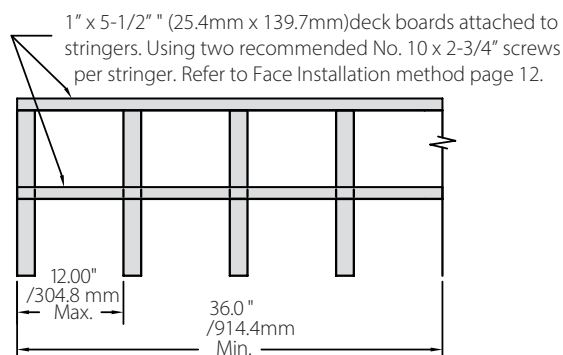
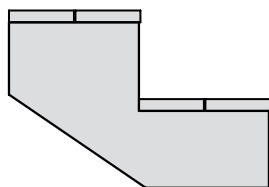


- When fastening the fascia boards, work in a consistent pattern from left to right or right to left. This ensures the flatness of the trim and reduces the chance of buckling.
- When inserting screws into the fascia board, drive them to the fascia board surface at a 90° angle. This provides optimal holding power.
- To prevent splitting, ensure that the screws placed at the ends of the fascia boards are at least 1/2" (12.7mm) away from the end.

Following these guidelines, you can achieve a professional and finished look when installing Gorilla® Wood Fascia boards on your deck. Always refer to Homeland Vinyl's instructions and procedures for your decking product to ensure proper installation and warranty compliance.

Stair Tread Installation Instructions:

EVALUATED INSTALLATION METHOD



HOMELAND VINYL PRODUCTS, inc.

Homeland Profiles: 800.999.6813 | www.HomelandVinyl.com

