

# NyloDeck® Installation Guidelines

Thank-you for choosing NyloDeck decking products, please take a few minutes and read the following installation guidelines along with the NyloDeck Care and Maintenance Guidelines before beginning your project.

## Sizes and Colors

- NyloDeck deck board is 15/16" x 5-1/2" and is available in 12', 16', 20', and 24' lengths to provide maximum flexibility in the design of your deck project and to minimize scrap.
- NyloDeck is available in (5) beautiful, natural looking colors; Desert Spice, Saddle Rose, Mountain Mocha, Newport White, and Harbor Gray.
- NyloDeck Fascia is 1/2" x 11-1/4" x 12' and is available in the same attractive colors to cover your decks framing and for use as stair risers.

## Quick Start

- Plan your decks design to maximize the enjoyment of your new deck.
  - Consult a Licensed Professional Deck Contractor, Architect, Engineer, or Local Code Official before beginning your deck project.
  - Consider whether you plan to use heavy items on your deck now or in the future.
    - Hot tubs, outdoor kitchens, fireplaces, etc.
  - Review railing manufacturer installation instructions before beginning your project.
    - There are many high quality railing systems that compliment NyloDeck.
  - Fire and excessive heat from grills, fire pits, and Low-E glass can damage your deck's surface.
    - Additional precautions should be taken when designing, installing, and using these items to prevent damage from direct flame exposure and excessive radiated or reflected heat.
- Use white chalk. Do not use high permanence chalk which may discolor your deck.
- Maintain a clean work site; do not allow construction debris and dirt to sit on the board.
- Follow NyloDeck board gap guidelines during construction to prevent buildup of dirt and debris.
- Ensure adequate ventilation under your deck to allow framing and the surface under your deck to remain as dry as possible.
- Ensure surface under your deck has sufficient grade and drainage to prevent standing water.
- Roof runoff, downspouts and splash guards must be directed away from the deck surface and substructure.
- Slope deck away from the home a minimum of 1/16" per foot to improve water run-off.
- NyloDeck is a unique extremely rigid material. Do not heat NyloDeck to bend into curved shapes as this method does not work. Use NyloDeck Fascia to dress up curved deck edges.
- NyloDeck should not be used for structural applications or railing supports.
- The substructure of your deck must be code compliant.
- Failure to follow installation guidelines can void your warranty.

## Job Site Storage

- Do not drop units off delivery truck.
- NyloDeck must be supported with battens in a level plane.
- Place supports at either end of the stack and every 24" in between, lined up vertically.
- To keep your NyloDeck clean, it is recommended that the material be covered until installation.

## Safety

- As with any construction project wear appropriate protective clothing and safety equipment.
  - It is recommended that you wear gloves, safety glasses, hearing protection, dust mask, and long sleeves particularly when using saws or working in confined spaces.
    - NyloDeck contains (2) thin layers of e-glass for superior structural performance.
- Follow all local building codes and regulations.

## Tools

- Use only high quality carbide-tipped blades in your circular saw, miter saw, and router.

## Building Codes

- For the most up to date copy of NyloDeck's Code Compliance Research Report, CCRR 0183, please visit <http://www.nyloboard.com/products/nylodeck>.
- NyloDeck has been independently tested by Architectural Testing, Inc. Evaluation Service (ATI-ES) for compliance with the International Code Council Evaluation Service (ICC-ES) Acceptance Criteria AC174 and ASTM D7032.
- NyloDeck is compliant with the following major model building codes:
  - 2012 International Building Code (IBS)
  - 2012 International Residential Building Code (IRC)
  - 2010 Florida Building Code (FBC) Excluding High Velocity Hurricane Zones (HVHZ)
- The installation and framing of your deck must meet all applicable local building codes and regulations in addition to the NyloDeck installation guidelines.
- If you plan to install items that are heavy or reflect or radiate heat such as hot tubs, planters, outdoor fireplaces, and outdoor kitchens, consult with a local engineer or code official and the item's manufacturer for framing requirements and radiated heat protection.

## Installation

- Part of the beauty of NyloDeck is the variation in color and wood grain pattern. Before attaching the boards, lay them out to achieve your desired look.
- The wood grain side of NyloDeck is to be used as the walking surface of your deck.
- Maximum board overhang is 1-1/2" beyond the fascia board or deck frame.
- Ensure flashing has been properly installed before attaching deck boards.
- **Framing**
  - Follow local building codes and best practices for your deck framing construction. The substructure of your deck must be code compliant.
  - NyloDeck should not be used for structural applications or railing supports.
  - Check your local building codes and regulations for proper joist sizing.

- **Framing Continued**
  - NyloDeck boards must span a minimum of (3) joists.
  - NyloDeck span ratings are 16/200 and 24/100 (see CCRR 0183)
    - 16/200 - rated for a uniform live load of 200 lbs/ft<sup>2</sup> when installed on support framing spaced up to 16" on center.
    - 24/100 - rated for a uniform live load of 100 lbs/ft<sup>2</sup> when installed on support framing spaced up to 24" on center.
  - When installing hot tubs, fire pits and other heavy items, additional framing and code compliance may be required.
    - Always consult with a local engineer, code official, and the item's manufacturer for installation, framing, radiant heat protection, and code requirements.
  - Add an additional joist or blocking where butt joints occur over a single joist.
  - Slope deck away from the home a minimum of 1/16" per foot to improve water run-off.
  - To improve the appearance of your finished deck, paint the top of the joists black.
- **Diagonal Patterns**
  - When installing decking diagonally, the maximum joist spacing is 16" on center.
    - Do not exceed 45° when using 16" joist spacing.
    - Follow the board gap guidelines.
- **Picture Frame**
  - Adding a picture frame detail can enhance the appearance of your deck and cover edge grooves used for hidden fasteners. Follow the board gap guidelines.
  - When adding blocking for this detail, installing the blocking flat will trap water and debris and may not meet code requirements. Install the blocking vertically.
  - Follow the board gap guidelines.
- **Cutting and Ripping Boards**
  - You may need to rip a board down to a narrower width to fit in a particular area. To match the factory edge, route the top edge with a 9/32" radius carbide tip router bit.
  - When end cuts and field routed edges will be visible after the deck is completed, you may use touch up paint for aesthetic reasons and to provide UV protection.
  - To preserve the strength of NyloDeck, do not route the top walking surface or bottom surface of the board.
- **Board Gap**
  - Gap boards a minimum of 1/8" between boards (side to side).
  - For picture frame detail, gap boards a minimum of 1/8" between the end of the boards being picture framed and the long edge of the picture frame board.
  - For butt joints, gap boards based on installed temperature:
    - Installed below 32°F, gap butt joints 3/16" and dress warmly
    - Installed between 33°F and 70°F, gap butt joints 1/8"
    - Installed between 71°F and 99°F, gap butt joints 1/16"
    - Installed over 100°F, gap butt joints 1/32" and drink plenty of fluids
  - Add an additional joist or blocking where butt joints occur over a single joist.
    - Use (2) fasteners per joist on both sides of the butt joint.
  - Leave a minimum of 3/16" gap between the end of the deck board and any solid surface such as a wall or post.

- **Surface Fasteners**

- Use a minimum of a #9 x 2-1/2" screw for installing deck boards and stair treads.
- Use (2) screws per joist or stringer.
  - For a professional look, line up the fasteners using a string or white chalk line.
- Screws should be installed a minimum of 3/4" from the board ends and sides.
- Screws should be installed 90° to board surface.
- These surface fastener manufacturers have tested their products and recommend the following for use with NyloDeck:
  - Grabber - Barracuda® Composite Deck Screw and ColorMax® Deck Screw
  - FastenMaster - TrimTop™ Stainless Steel
  - Grip Rite - Primeguard Plus® composite deck screw
  - Screw Products - CD234 composite deck screw
  - Simpson Strong Tie – SSDCL Compositi-lok™, SS3DSC Wood Screw, Dexxter™ Composite Decking Screw, and SSDTH Trim Head Wood Screw
  - Starborn Industries - Headcote Cap-Tor® and Deckfast Cap-Tor®
- NOTE: Due to its exceptional properties, a number of high quality fasteners will work with NyloDeck.
- Follow fastener manufacturer installation guidelines and coastal area recommendations.
- For best results use color matched screws.

- **Hidden Fasteners**

- Use (2) fasteners per joist.
- Do not use a hammer or rubber mallet directly on NyloDeck. Use a beater board or tool like the Grabber DeckMaster™ PowerHand™ to ensure a consistent board gap.
- These hidden fastener manufacturers have tested their products and recommend the following for use with NyloDeck:
  - Grabber - DeckMaster™ G5™ deck clip (grooved board)
  - HIDfast hidden fastener system (use with solid side boards)
  - Simpson Strong Tie – EB-TY® EBTYP (grooved board)
  - Tiger Claw – TC-G (grooved board)
- NOTE: Due to its exceptional properties, a number of high quality hidden fasteners will work with NyloDeck.
- Follow fastener manufacturer installation guidelines and coastal area recommendations.

## **Stairs**

- Do not use hidden fasteners on stairs treads.
- Use a minimum of #9 x 2-1/2" screws, (2) per stringer.
- NyloDeck boards used as stair treads must span a minimum of (3) stringers.
- The maximum center to center span for stringers is 12".
- Consult your local building code for stair width, framing, and other design requirements.
- To improve the appearance of your stairs, use NyloDeck Fascia on the risers and the exposed sides of stringers.
  - For stair risers, install a screw 3/4" from the top and bottom in every stringer.
  - Screws should be installed a minimum of 3/4" from the board end.
  - For best results use a color matched screw and keep the screws lined up.

### **NyloDeck Fascia**

- NyloDeck Fascia is an attractive way to dress up your deck. It is a non-structural covering for use on exposed deck joists, stair risers, and stringers to provide a beautiful finish to your deck.
- NyloDeck Fascia is 1/2" x 11-1/4" x 12' and is available in all (5) NyloDeck colors.
- When using full width, install a screw 2-1/2" from the top and bottom every 16".
- Screws should be installed a minimum of 3/4" from the board end.
- Drive the screw flush to the surface and be careful not to over-torque.
- For best results use a color matched screw and keep the screws lined up.
- Work from one end of the board to the other to keep it flat during installation.

### **Touch up kit**

- When end cuts and field routed edges will be visible after the deck is completed, you may use touch up paint for aesthetic reasons and to provide UV protection. It is not necessary for structural performance.
  - BEHR® Premium® Solid Color Weather Proofing Wood Stain

### **Heat Sources**

- NyloDeck as well as many other building materials can potentially be damaged by sources of excessive heat, fire, reflected light and reflected heat, such as grills, Low-E glass, fireplaces and fire pits. Consult with the manufacturer of these items before designing, installing, and using these items for methods to prevent damage.

### **Care and Maintenance**

- NyloDeck is designed to provide years of enjoyment. For detailed instructions on the proper care and maintenance of NyloDeck please visit [www.NyloBoard.com](http://www.NyloBoard.com).

### **Limited Warranty**

- NyloDeck is covered by either a 25 Year Residential or 10 Year Commercial Limited Warranty and either a 25 Year Residential or 10 Year Commercial Limited Fade and Stain Warranty. For details and to register your limited warranty, please visit [www.NyloBoard.com](http://www.NyloBoard.com).

To make sure you have the most up to date copy of the NyloDeck installation guidelines, please visit [www.NyloBoard.com](http://www.NyloBoard.com). The effective date for this document is December 1, 2012.