


RENEWMax Deck Design and Installation Guide



The Product:

Composition

- 1) RENEWMax is composed of a blend of recycled pre-consumer/post-consumer and virgin (HDPE) high-density polyethylene (plastics code ) , plus a mineral component. Solid color throughout the board, and no organics that break down when exposed to sun and water.
- 2) **Color**
RENEWMax has ultra-violet (UV) stabilizers added to help protect the color and the integrity of the HDPE. There is a 25 Year Fade and Stain warranty for this product.
Standard deck colors are Gray, Sand and Wood. We also have special order colors available subject to an additional charge.
- 3) **Texture**
RENEWMax is manufactured with a slight wood grain-like texture, creating an easy to clean surface that is no more slippery when wet than a painted or sealed wood deck.
A natural film, which cannot be seen or felt, is left on the surface of the material after manufacturing. Sunlight will normally “burn off” this film in a few weeks.
- 4) **Product Life**
Original RENEW Products are still going strong after over twenty years of accelerated weather testing. We have not seen the total life span of the products to date. We do have product installed on boat docks since 1976 with no sign of degradation.
- 5) **Maintenance**
RENEWMax is virtually maintenance free! No staining, painting, or sealing is ever required!
Cleaning is as simple as using a light detergent and a soft bristle brush or broom. For stubborn stains, a mixture of bleach and water (1-part bleach to 10 parts water) can be used without harming the product. After all, bleach and acids are normally sold in HDPE plastic bottles.
- 6) **Tools**
Standard woodworking tools can be used. You may have to use a lower speed with your router or planer/jointer to prevent “gumming up” of the router bit or the planer/jointer Knives. Carbide tipped bits and blades are recommended. Always use tools according to manufacturer’s instructions and wear protective clothing and safety glasses for your safety.
- 7) **Weight**
The weight of this product is comparable to standard pressure treated lumber of the same size. The 5/4 x6 decking weighs approximately 2 pounds per foot and the 2x6 decking, 3 pounds per foot.
- 8) **Sizes available for decking**

Decking Size	5/4 x 6 (Net 1” x 5 ½”) Joist Span 18” at 100 PSF (Joist perpendicular)
	2 x 6 (Net 1 ½” x 5 ½”) Joist Span 28” at 100 PSF (Joist perpendicular)
	Reduce joist a minimum of 4” for stairs and diagonal framing
Lengths	Check with your local dealer for stocked lengths. Custom lengths are available with a minimum order amount or a “Set-Up” fee will apply.

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Installation:

1) Board Clearances

Ideally, RENEWMax boards should be installed at the midrange of normal temperatures for the area at the time of installation (i.e.: approx. 60 F in northern climates and 80 F in southern climates).

A space must be left next to building walls and around posts to allow for expansion and contraction of the RENEWMax plastic lumber. Generally, a 3/8" gap is sufficient, depending on the temperature of the boards at the time of installation and the length of boards being installed. Proper bridging or blocking should be used when framing. Butt joints are not recommended, if installing over 16' lengths, it is recommended to use feature boards to break up the sections.

2) Board Edge Overhang

A 2" finished overhang of the deck boards beyond the rim joist is recommended.

Note: It is generally easier to allow additional overhang of every floorboard during installation, followed by trimming this overhang on a straight line when finished. A slight radius can be added to the trimming floorboards' top edge with a router to create a more aesthetically pleasing effect.

3) Fastening

Deck or Dock Boards

Face screwing with two #9 x 2 3/4" self-tapping stainless-steel screws into each joist is recommended. Boards slightly countersunk to have the cleanest looking installation. A small amount of lubricant (soap or wax) applied to the screws may aid installation in some joist material, such as Southern Yellow Pine.

Important Notes:

Installer and/or purchaser should consult local building codes prior to the building process.

RENEWMax plastic lumber should be stored on a flat surface prior to installation, and boards should be carried on edge for better support.

Two cuts must be taken when rip cutting RENEWMax plastic lumber. This is due to the difference in density between the outer "skin" of the board and the board's center. For example, if a 5/4 x 6 board needs to be ripped, it should be ripped down evenly from both sides. Contact your RENEWMax representative to answer any additional questions.

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