

how to make a longboard deck

How to Make a Longboard Deck: A Step-by-Step Guide to Crafting Your Own Ride

how to make a longboard deck is a question that pops up often among skateboarding enthusiasts who want to customize their ride or simply enjoy the process of building something unique with their own hands. Creating a longboard deck from scratch can be both a rewarding and educational experience, giving you insight into board design, materials, and craftsmanship. Whether you're a seasoned woodworker or a beginner eager to try your hand at DIY longboard construction, this guide will walk you through the essential steps, tips, and tricks to help you build a strong, stylish, and functional longboard deck.

Understanding the Basics of a Longboard Deck

Before diving into the actual construction, it's important to understand what makes a great longboard deck. The deck is the flat board that you stand on, and its shape, size, and material all influence the ride quality, stability, and control. Longboard decks tend to be longer and wider than traditional skateboard decks, often ranging from 33 to 60 inches in length and 8 to 10 inches in width, depending on the style of riding you prefer (cruising, downhill, freestyle, or dancing).

Choosing the Right Wood and Materials

The key to a durable and responsive longboard deck lies in the materials you choose. Most longboard decks are made from layers of hardwood veneer, often maple, due to its strength and flexibility. Bamboo is another popular option, prized for its lightness and eco-friendliness, sometimes combined with maple or fiberglass layers for added durability.

For your DIY project, gather these materials:

- Thin sheets of maple or bamboo veneer (typically 7 to 9 layers)
- Wood glue (water-resistant and strong, like epoxy or Titebond III)
- Fiberglass cloth (optional, for reinforcement)
- Sandpaper (various grits, from 80 to 320)
- Clear coat or deck sealant for finishing

Step-by-Step Process for How to Make a Longboard Deck

1. Designing Your Longboard Deck Shape

The first step in how to make a longboard deck is planning your board's shape. You can sketch your own design or use templates available online. Popular shapes include pintail, drop-through, drop deck, and directional shapes. Think about what kind of riding you want to do; for example, a pintail is great for cruising, while a drop deck offers stability at high speeds.

Once you have your design, transfer it onto your veneers using a pencil. Precision here is important because your outline determines the board's final dimensions and aesthetics.

2. Preparing the Veneers for Lamination

To achieve the necessary strength and flexibility, longboard decks are made by laminating multiple thin layers of veneer. Each layer's grain should alternate directions (cross-grain construction) to prevent warping and increase strength.

Lay out your veneers, alternating the grain direction, and sand each layer lightly to ensure good glue adhesion. If you plan to include fiberglass for reinforcement, cut the fiberglass cloth to match the deck size and prepare it for lamination.

3. Gluing and Pressing the Layers Together

Apply an even coat of wood glue to each veneer layer. Be generous but avoid excess glue that will squeeze out and create a mess. Stack the veneers carefully, ensuring alignment with your deck outline.

Pressing the veneers together is crucial. You can use a specialized longboard press if available, or improvise with a DIY press using heavy weights, clamps, or a vacuum bag system. The goal is to apply even pressure across the entire board during the glue curing process, typically 24 hours.

4. Cutting Out the Deck Shape

After the glue has fully dried and the veneers have bonded into a single solid deck, remove the board from the press. Using your outline as a guide, cut out the deck shape with a jigsaw or bandsaw. Take your time here for smooth, clean edges, which matter both aesthetically and functionally.

5. Shaping and Contouring Your Longboard Deck

Shaping is where your board really starts to come alive. Use a belt sander, rasp, or hand tools to smooth the edges and create contours that enhance comfort and performance.

Popular contours include concave (slight inward curve across the width) for foot grip and camber (upward curve along the length) for added stiffness.

Be mindful of the thickness and flex you want. Thinner boards flex more but may sacrifice stability, while thicker boards are sturdier but less responsive.

6. Sanding and Finishing Touches

Sanding is a crucial step to ensure your deck is comfortable and visually appealing. Start with coarse grit sandpaper (around 80 grit) to smooth rough edges, then progress to finer grits (up to 320 grit) for a polished finish.

If you want to personalize your board, now is the time to add artwork, paint, or decals. After decorating, apply a clear coat or deck sealant to protect the wood from moisture and wear. Multiple coats may be necessary, with light sanding in between for the best result.

Tips for a Successful DIY Longboard Deck

- **Use quality materials:** The quality of your veneers and glue directly affects the board's durability and ride feel.
- **Be patient with pressing:** Proper curing time and consistent pressure during lamination ensure a solid bond and prevent delamination.
- **Plan your deck shape carefully:** Consider your riding style and preferences before finalizing your design.
- **Practice safety:** Always wear protective gear when cutting, sanding, or working with adhesives and finishes.
- **Test your board gradually:** After completing your deck, attach trucks and wheels and test ride slowly to get a feel for how your board handles.

Exploring Advanced Techniques and Materials

If you're eager to take your longboard deck making to the next level, consider integrating advanced materials and methods:

- **Fiberglass or Carbon Fiber Reinforcement:** Adding layers of fiberglass or carbon fiber between veneers adds stiffness and durability without significantly increasing weight.
- **Steam Bending:** Some builders use steam to bend wood veneers into curved shapes before lamination, allowing for more complex deck profiles.
- **Pressing with Vacuum Bags:** A vacuum bag press applies even pressure and removes excess glue better than traditional clamps, resulting in a cleaner, stronger deck.

These techniques require specialized tools and experience but can produce professional-grade decks.

Why Make Your Own Longboard Deck?

Building your own longboard deck isn't just about saving money or having a custom board—it's about understanding the craft behind the sport. When you know how to make a longboard deck, you gain insight into how different shapes and materials affect performance, giving you a more personalized connection to your ride.

Plus, the pride of standing on a board you crafted yourself is unmatched. It's a conversation starter and a testament to your creativity and skill. Whether you build your first deck as a fun weekend project or develop a passion for longboard construction, the knowledge and experience are incredibly rewarding.

By embracing this hands-on process, you also open doors to experimenting with new designs, materials, and finishes. The DIY approach fosters innovation and self-expression, making your longboarding journey truly your own.

Frequently Asked Questions

What materials do I need to make a longboard deck?

To make a longboard deck, you typically need plywood (preferably maple or bamboo), wood glue, clamps, a jigsaw or bandsaw, sandpaper, a mold or form for shaping, and finishing supplies like paint or sealant.

How many layers of wood are ideal for a strong longboard deck?

Most longboard decks are made from 7 to 9 layers of wood veneer laminated together to achieve the right balance of strength, flexibility, and durability.

What is the best wood type for longboard decks?

Maple is the most popular wood for longboard decks due to its strength and flexibility. Bamboo is also favored for its lightweight and eco-friendly properties.

How do I create the concave shape on a longboard deck?

You can create the concave shape by bending the glued layers over a concave mold and clamping them tightly until the glue dries, or by cutting and sanding the deck to shape after lamination.

How long does it take for the glue to dry when making a

longboard deck?

Wood glue typically requires 12 to 24 hours to fully cure, but it's best to follow the specific glue manufacturer's instructions for drying times before removing clamps.

Can I make a longboard deck without a mold?

Yes, you can make a flat longboard deck without a mold, but for a concave or cambered shape, a mold is highly recommended to ensure consistent and strong shaping.

What tools are essential for shaping and finishing a longboard deck?

Essential tools include a jigsaw or bandsaw for cutting, clamps for laminating, sandpaper or a power sander for smoothing edges, and finishing supplies such as varnish or paint for protection.

How do I waterproof and protect my homemade longboard deck?

After sanding, apply multiple coats of waterproof wood sealant, varnish, or epoxy resin to protect the deck from moisture and wear, allowing each coat to dry thoroughly before applying the next.

Additional Resources

How to Make a Longboard Deck: A Professional Guide to Crafting Your Own Ride

how to make a longboard deck is a question that resonates with enthusiasts seeking a personalized touch to their skateboarding experience. Building a longboard deck from scratch offers not only a sense of accomplishment but also the opportunity to customize every aspect of the ride—from shape and size to flex and aesthetics. This article delves into the step-by-step process, materials, and techniques involved in longboard deck fabrication, providing a comprehensive, analytical perspective suitable for both novices and experienced builders.

Understanding the Basics of Longboard Deck Construction

Before diving into the practical steps of how to make a longboard deck, it is crucial to understand the fundamental components and design considerations that influence performance. A longboard deck serves as the foundation of the entire setup, impacting stability, maneuverability, and rider comfort.

Longboards differ from traditional skateboards primarily in length, width, and flexibility.

Typically ranging from 33 to 60 inches in length, longboards tend to be wider and more stable. The choice of wood, the number of plies, and the type of adhesive used in lamination profoundly affect the deck's durability and flex characteristics.

Materials Selection: Wood Types and Alternatives

The most common material for longboard decks is maple plywood due to its strength, flexibility, and availability. Canadian hard rock maple is often preferred for its tight grain structure and resilience. Most commercial decks use 7 to 9 plies of maple veneer laminated together.

However, some builders incorporate alternative materials to enhance performance or aesthetics:

- **Bamboo:** Known for its natural flex and sustainability, bamboo is lighter and offers a unique ride quality.
- **Fiberglass or Carbon Fiber:** These materials are used as reinforcement layers to increase strength without adding significant weight.
- **Composite Laminates:** Combining wood with synthetic fibers can yield decks with customized flex patterns.

Choosing the right material depends on the intended use—cruising, downhill racing, or freestyle—and personal preferences regarding weight and flex.

Designing Your Longboard Deck: Shape and Dimensions

One of the most critical phases in how to make a longboard deck is the design process. The deck's shape influences turning radius, stability, and rider stance. Common shapes include pintail, drop-through, drop deck, and top-mount.

- **Pintail:** Classic surf-style design, ideal for cruising and carving.
- **Drop-Through:** Trucks mount through the deck, lowering the center of gravity for increased stability.
- **Drop Deck:** The deck itself is lowered between the trucks, offering a stable stance for downhill riding.
- **Top-Mount:** Traditional skateboard mounting style, providing more leverage and responsiveness.

The dimensions—length, width, wheelbase—must align with the rider's height, weight, and riding style. Typically, a width between 8 to 10 inches and a wheelbase from 20 to 30 inches are standard for longboards.

Step-by-Step Process: How to Make a Longboard Deck

The process of how to make a longboard deck involves several stages, from preparing materials to finishing touches. Below is an outline of the essential steps:

1. Preparing the Veneers

Start with selecting thin layers of wood veneer, typically 1/16 to 1/32 inches thick. The veneers must be uniform and free of defects. Each ply will be oriented with the grain perpendicular to the adjacent layer to maximize strength.

2. Creating a Mold or Form

To shape the deck, a mold that reflects the desired concave and camber is necessary. This can be constructed from MDF or plywood and should be smooth and sturdy. The mold dictates the final curvature of the longboard deck, affecting how it flexes and handles.

3. Applying Adhesive and Stacking Layers

Use high-quality waterproof epoxy or wood glue designed for laminating marine plywood. Spread an even layer of adhesive on each veneer, stacking them carefully according to the grain orientation pattern. Precision in alignment is essential to avoid warping.

4. Pressing the Deck

Place the stacked veneers inside the mold and apply pressure to bond the layers. This can be done with a vacuum bag press, clamps, or a hydraulic press. Maintaining consistent pressure during curing, which typically takes 12 to 24 hours, ensures a strong, uniform bond.

5. Trimming and Cutting the Deck Shape

Once cured, remove the deck from the mold and use a template to outline the final shape. A jigsaw or CNC router can be employed to cut the deck accurately. Sanding the edges

smooths out any roughness.

6. Drilling Mounting Holes

Mark and drill holes for the trucks, ensuring precise placement for optimal wheelbase and stance. Measuring twice is essential to avoid misalignment, which can affect ride stability.

7. Finishing and Sealing

Apply a protective finish such as polyurethane, varnish, or lacquer to safeguard the wood against moisture and wear. This step also enhances the deck's aesthetic appeal. Some builders opt for custom graphics using paint or grip tape.

Critical Considerations in the DIY Longboard Deck Process

Building a longboard deck at home involves both artistry and technical skill. There are several factors to weigh that influence the deck's performance and longevity.

Flex and Stiffness Balance

The number of plies and material choice determine how much the deck will flex. A deck that is too stiff may feel unresponsive, while excessive flex can reduce control at high speeds. Builders often experiment with ply counts from 5 to 9 layers and add fiberglass for reinforcement.

Weight vs. Durability

While lighter decks improve maneuverability, they may sacrifice durability, especially if thin veneers or alternative materials are used without proper reinforcement. Selecting adhesives and finishes that maintain strength without adding bulk is essential.

Environmental and Safety Considerations

Using non-toxic adhesives and finishes is recommended to minimize health risks during construction. Additionally, working in a well-ventilated area and wearing protective gear during cutting and sanding is critical.

Comparing DIY Decks to Commercial Longboards

The decision to craft a longboard deck versus purchasing a pre-made model hinges on various factors. Commercial decks benefit from industrial-grade presses, CNC precision, and proprietary materials engineered for optimal performance. However, DIY decks allow for unparalleled customization and personal satisfaction.

Potential drawbacks of homemade decks include:

- Inconsistent quality due to lack of professional equipment.
- Time-consuming process requiring patience and skill.
- Possible higher costs when factoring in tools and materials.

Conversely, advantages include:

- Customization of shape, size, and flex tailored to individual preferences.
- Opportunity to innovate with unique materials and designs.
- Enhanced understanding of longboard mechanics through hands-on experience.

Final Thoughts on Crafting Your Longboard Deck

Understanding how to make a longboard deck involves a careful balance of design principles, material science, and craftsmanship. While the process is complex, it offers a rewarding avenue for riders seeking a bespoke longboard experience. From selecting the right wood veneers and adhesives to mastering the pressing and finishing stages, each step contributes to a functional and personalized ride.

For those passionate about skateboarding, embracing the challenge of building a deck can deepen appreciation for the sport's technical and artistic dimensions. Whether aiming for a smooth cruising board or a high-performance downhill machine, the journey of making a longboard deck is as much about discovery as it is about the final product.

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how to make a longboard deck: *Longboard Skateboarding* Peter Castellano, 2015-07-15 In 2012, a skateboarder riding a longboard traveled more than 80 miles (129 km) per hour downhill to break the world record for fastest longboard speed. On the other hand, the longboard skateboard is likely the best skateboard to ride for just getting around via skateboard! Readers are introduced to the many ways of riding a longboard, including in downhill competitions and freeriding. Full-color photographs highlight the fast action of the sport, while the main content encourages caution when beginning a new, daredevil sport. Safety tips and fact boxes add even more detail about this fun emerging sport.

how to make a longboard deck: *Longboarding* Mary-Lane Kamberg, 2016-07-15 From its origins as a land-based alternative to surfing, one that incorporated the wheels and trucks used by skateboarders, longboarding, developed in Hawaii during the 1950s, has come a long way. In the 1970s, when the sport was seen as a form of self-expression, it was more of a do-it-yourself hobby. Today, longboarding is bigger than ever. This book describes the sport's history, gives riders an idea of how to choose their equipment and begin practicing this unique sport. From mere transportation, to obstacle slalom, freeriding, dancing, and freestyling, readers will be impressed with the many styles of this ever-changing pastime.

how to make a longboard deck: *Extreme Sports Skateboard!* Constance Loizos, 2002 Your guide to street, vert, downhill, and more.

how to make a longboard deck: *UNBORED Adventure* Joshua Glenn, Elizabeth Foy Larsen, 2015-10-06 UNBORED Adventure has all the smarts, innovation, and free-wheeling spirit of the original UNBORED and its 2014 spinoff, UNBORED Games, but with a fresh focus on encouraging kids to break out of their techno-passivity and explore the world around them--whether that's a backyard, a downtown, or a forest. Combining old-fashioned favorites with today's high-tech possibilities, the book offers a goldmine of creative, constructive activities that kids can do on their own or with their families. From camouflage techniques, survival skills, and cloudspotting advice to instructions on how to build an upcycled kite or raft, to using apps to navigate and explore, it's all here--along with comics that dive into the secret history of everything from bicycling to women explorers. A fun corrective to our over-anxious parenting culture, UNBORED Adventure encourages kids to become more independent and resilient, to solve problems and ask questions, and to engage with both their community and natural environment. The original UNBORED is already a much beloved, distinctly contemporary family brand. Along with UNBORED Games, UNBORED Adventure extends the franchise in a handy, flexibound format so that the whole family can enjoy themselves indoors, outdoors, online, and offline. *Los Angeles Magazine

how to make a longboard deck: *Maker Dad* Mark Frauenfelder, 2014 The first DIY book to use cutting-edge (and affordable) technology in appealing projects for fathers and daughters to do together.

how to make a longboard deck: *Skateboarding and the City* Iain Borden, 2019-02-21 Skateboarding is both a sport and a way of life. Creative, physical, graphic, urban and controversial, it is full of contradictions - a billion-dollar global industry which still retains its vibrant, counter-cultural heart. Skateboarding and the City presents the only complete history of the sport, exploring the story of skate culture from the surf-beaches of '60s California to the latest developments in street-skating today. Written by a life-long skater who also happens to be an

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how to make a longboard deck: Skateboarding Jackson Teller, 2011 Provides information about skateboards and skateboarding, from basic board maintenance to developing skating skills.

how to make a longboard deck: **How to Buy and Sell (Just About) Everything** Jeff Wuorio, 2010-06-15 How to Buy & Sell (Just About) Everything The Ultimate Buyer's Guide for Daily Life Don't make another purchase before you buy this ultimate buyer's guide. With more than 550 how-to solutions, these pages are packed with savvy strategies for choosing and locating (and unloading and liquidating) both everyday items and once-in-a-lifetime splurges, with special emphasis on how to find bargains and broker great deals. The clear and friendly information in How To Buy & Sell (Just About) Everything makes any buying or selling decision easy, from selecting baby gear to saving for college, from hawking lemonade to selling your company. Browse these pages to discover how to: Buy a House • Sell a Car • Buy Happiness • Sell Your Old Computer • Buy Mutual Funds • Hire a Butler • Choose a Diamond Ring • Purchase a Tent • Get Breast Implants • Negotiate a Better Credit Card Rate • Buy a Hot Dog Stand • Sell Your Baseball Collection • Outfit a Nursery • Book a Cheap Safari...and much, much more Written and designed in the same easy-to-use format as its predecessors, How To Do (Just About) Everything and How to Fix (Just About) Everything, this invaluable collection includes concise instructions, helpful tips and comparison charts -- everything you need to understand product features, prevent problems and guarantee smart purchasing decisions. This is the only book you need to make the most of your money.

how to make a longboard deck: *Role of Higher Education Institutions in Achieving Sustainable Development Goals* Sri Sairam College of Engineering, 2022-08-01 Contains papers related to Role of Higher Education Institutions in Achieving Sustainable Development Goals

how to make a longboard deck: *Long For Life* Brandon Harrison, 2023-04-18 I just did my best to remember to tell myself 'I can and will change my life for the better,' page 40, Long for Life. It is inevitable that, at some point, everyone will confront some sort of challenge, adversity, or obstacle in life. Survivor, Brandon Harrison, however, faced more than a challenge. His cancer diagnosis at a young age came with a slim twenty-five percent chance of surviving through childhood, only then to suffer two hemorrhagic strokes in his teens. Brandon Harrison chose to claim his life back and raise money by longboarding across Canada with his father, Michael. Tragically, Harrison's trip was cut short when he suffered a third hemorrhagic stroke at their second Heart and Stroke fundraiser and he woke up from a coma half-paralyzed on his twentieth birthday. After learning to stand, walk, and ride again, Harrison would finish his cross-country mission on the third-year anniversary of the day he nearly lost his life from the paralyzing stroke. Long for Life is Brandon's mind-boggling story of 28 years: a diversity of drama, suspense, adventure, and curiosity full of twists that will inspire readers aged mid-teens to sixty to live the best possible life they can. Long for Life is sure to stir readers to weather life's misfortunes by working hard, believing in themselves, and never giving up, no matter what life throws at them. To live their lives to the fullest. To know without a reasonable doubt that they, too, can overcome any and all obstacles that life may throw at them.

how to make a longboard deck: Skateboarding Paul Mason, 2011 The World's Coolest Skate Spots and Techniques

how to make a longboard deck: The Skateboard Ben Marcus, 2011-06-06 The story of the simple skateboard is part thriller, part underground, underdog success tale. It's chock-full of innovations, far-out graphic artistry, and ever-more-incredible hot-dogging feats. And the story's told in this book with contributions from the stars themselves—Tony Hawk, Stacey Peralta, Jeff Ho, the Dogtown Z-Boys, and more. Beautifully illustrated with historical posters, ads, and memorabilia along with new action photography, studio skateboard shots, and unique portraits of the stars, this is a fitting tribute to an American classic.

how to make a longboard deck: Building Your Hollow Wood SUP Chad Stone, 2012-08 Building Your Hollow Wood Stand-Up Paddleboard. A guide to building a hollow cedar S.U.P. using 1/4 cedar planking covering a thin plywood frame featuring our patented rail construction method, making the building process easier and allows for a better finished product. Plans are available for instant download with proof of purchase (details inside) and free real time help from the author through email to help you through the build process, along with the Timeless Surf Forum's online community to share information and updates.

how to make a longboard deck: The Handmade Skateboard Matt Berger, 2014 The Handmade Skateboard is the definitive book on building custom skate decks of all shapes and sizes. A design guide covers everything you need to know about sizing and shaping your deck and choosing the right trucks and hardware. And detailed photos, illustrations and clear written instruction throughout provide all the information and motivation you need to make your own skateboard from scratch.

how to make a longboard deck: Make: Technology on Your Time Volume 26 Mark Frauenfelder, 2011-04-15 MAKE Volume 26: Karts & Wheels Garage go-kart building is a time-honored hobby for do-it-yourselfers, and we'll show you how to build wheeled wonders that'll have you and the kids racing around the neighborhood in DIY style. Build a longboard skateboard by bending plywood. Build a crazy go-kart driven by a pair of battery-powered drills. Put a mini gasoline engine on a bicycle. And construct an amazing wind-powered cart that can outrun a tailwind. Plus you'll learn how to build the winning vehicle from our online Karts and Wheels contest In addition to karts, you'll find plenty of other projects that only MAKE could give you: A flaming tube that keeps time to music and makes sounds waves visible -- in fire An aquarium tank to grow your own Spirulina algae superfood An electronic music looper that creates cool sounds and lets you build wild rhythm loops

how to make a longboard deck: Skateboarding For Dummies Daewon Song, 2024-06-05 A beginner's guide to skating for fun, fitness, and self-expression Skateboarding For Dummies teaches you the basics of the fun and popular sport of skateboarding, so you can start shredding. Author Daewon Song has been a pro skateboarder for 30 years and is considered to be the most technically gifted skateboarder of all time. He is passionate about the sport and shares his enthusiasm and experience in this easy-to-read guide. Skateboarding is a fun, challenging, and inclusive sport that can also be a powerful outlet for self-expression. With this book, you'll learn cool tricks, safe skating, and skatepark etiquette. Plus, you'll discover how skateboarding can bring positivity to your life, building your confidence and self-esteem. Shop for your first skateboard and essential accessories Learn the basics of riding a skateboard at a skatepark Get step-by-step instructions for performing classic tricks Discover the history of skateboarding Skateboarding is for everyone, regardless of age or background, and Skateboarding For Dummies is for anyone who wants to give this sport a try.

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how to make a longboard deck: Skateboarding Lizabeth Craig, 2014-07-23 Charts, diagrams, and other graphics help explain the science behind this thrilling sport. Readers won't even notice that they're learning valuable science concepts. The physics, biomechanics, and psychology aspects of the sport are all richly detailed. Readers will learn about training and injuries as well.

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