



# ACRE™ BY MODERN·MILL

A WORLD BEYOND WOOD

SIDING

TRIM BOARDS

DECKING

SHEETS

MILLWORK

## PRODUCT GUIDE





SHIPLAP SIDING  
Kirkland, WA

PRODUCTS USED:  
ACRE Shiplap Siding

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# Build Better with ACRE

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Modern Mill is leading the way toward a more sustainable future, one tree-free board at a time. Our award-winning building material, ACRE, is the ideal alternative to wood for countless exterior and interior applications. It's beautiful, easy to work with, easy to care for and better for the environment. ACRE is strong, water-resistant and guaranteed not to rot or splinter. ACRE is a sustainable choice that doesn't sacrifice performance.

## RESPONSIBLE, SUSTAINABLE AND LOCAL

We use discarded rice hulls that would otherwise go to landfills, and we embrace a zero-waste manufacturing process. ACRE products are free of phenolic plasticizers such as bisphenol A, formaldehyde, and adhesives. ACRE is 100% recyclable and can be used to form new products at our manufacturing facility in Mississippi, USA.



CEILING PANELS  
Miami, FL

PRODUCTS USED:  
ACRE Trim Boards

# Features and Benefits of ACRE

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## **WORKS LIKE WOOD - BUT BETTER!**

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Paintable and stainable. No primer necessary

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Easy to rout, cut and sand in the field with regular woodworking tools

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Easy on tools. Minimal melting or static-charged dust

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No harmful dust or residue

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Pre-drilling not required. Screws and nails will not mushroom

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Uniform texture throughout and finish-ready, no need to seal or treat ends or cut edges

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## **NATURAL BEAUTY**

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Genuine warm look and feel of wood

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Natural-looking grain

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Endless finish options with water-based paints or stains. See Coatings Guide for important information

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Thermoform for folded corners, curves and creative shapes

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Digitally print directly on ACRE's surface

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## UNMATCHED DURABILITY

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100% resistant to water, weather, rot and pests – even termites!

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Guaranteed not to splinter or rot

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Smooth screw application close to edges, and into sides without splitting

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Suitable for ground and water contact

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Sturdy, resists breakage and job site damage

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Debris from cutting will fall and brush off surfaces and clothing (less static cling than traditional PVC)

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Easy on tools when routing, cutting and screwing

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Strong screw and nail retention. Superior bond with a selection of glues and construction adhesives

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No special maintenance or cleaning methods needed

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Virtually no moisture absorption so paint lasts longer than on wood

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Less expansion and contraction than competitive PVC products

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Lightweight, yet strong and straight

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Be sure to consult installation guides and reference materials before working with ACRE products.

# ACRE Siding

Wrap your home in the eco-friendly beauty and durability of ACRE Siding.

## SIDING PRODUCTS

- Shiplap Siding
- Board and Batten Siding
- Edge and Center Bead Siding



## Shiplap Siding

### AESTHETIC

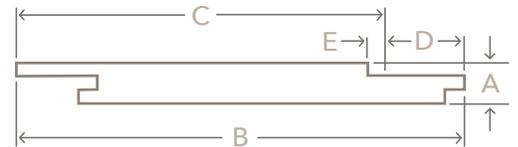
- ACRE Grain



- Embossed



### SHIPLAP SIDING PROFILE DETAILS



Nominal Size	Actual Thickness (A)	Actual (B)	Reveal (C)	Tongue (D)	Gap (E)	Lengths
1"x6"	3/4"	5-7/16"	4-1/2"	1-3/16"	1/4"	12', 16', 20'
1"x8"	3/4"	7-3/16"	6-1/4"	1-3/16"	1/4"	12', 16', 20'
1"x10"	3/4"	9-3/16"	8-1/4"	1-3/16"	1/4"	12', 16', 20'

- Locking tongue and groove application for a flat and straight install
- Match the finish on your shiplap siding with complementary ACRE trim, decking and porch boards



SHIPLAP SIDING  
Newton, MA

PRODUCTS USED:  
ACRE Shiplap Siding



BOARD AND BATTEN SIDING  
Easthampton, NY

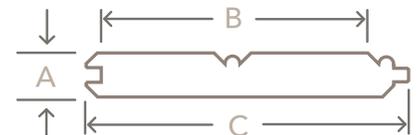
PRODUCTS USED:  
ACRE Trim Boards



## Edge and Center Bead Siding

Edge and Center Bead is a reversible product with a beaded look on one side and a v-groove on the other.

### AESTHETIC



### EDGE AND CENTER BEAD SIDING PROFILE DETAILS

Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)	Lengths
1"x6"	0.75"	5.4"	5.2"	16'

## Board & Batten Siding

### BOARD AND BATTEN RECOMMENDATIONS

**Board Options (ACRE Sheets)** 1/2" or 3/4" Thickness | Sanded or Embossed

**Batten Options (ACRE Trim)** 1" x 2", 1" x 3", 5/4" x 2", or 5/4" x 3"

Learn more  
at [modern-mill.com](http://modern-mill.com)



# ACRE Trim Boards

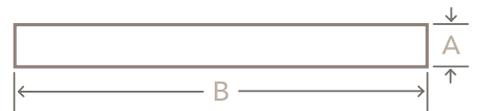


ACRE Trim Boards add a final, beautiful touch to your projects.

## AESTHETIC



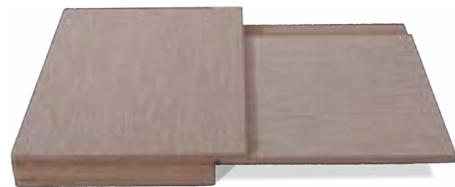
## TRIM BOARDS PROFILE DETAILS



Product Name	Nominal Size	Actual Thickness (A)	Actual Width (B)	Lengths
ACRE 5/8" Trim	5/8" x 3", 4", 5", 6", 8", 10", 12", 16"	0.625"	2.5", 3.5", 4.5", 5.5", 7.25", 9.25", 11.25", 15.25"	8' to 20'
ACRE 1" Trim	1" x 3", 4", 5", 6", 8", 10", 12", 16"	0.75"	2.5", 3.5", 4.5", 5.5", 7.25", 9.25", 11.25", 15.25"	8' to 20'
ACRE 5/4" Trim	5/4" x 3", 4", 5", 6", 8", 10", 12", 16"	15/16"	2.5", 3.5", 4.5", 5.5", 7.25", 9.25", 11.25", 15.25"	8' to 20'

# ACRE Rabbeted Trim

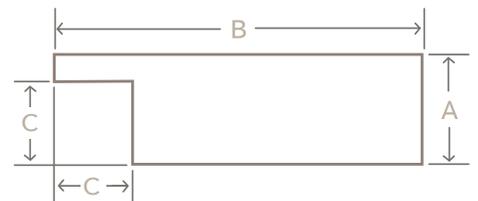
ACRE Rabbeted Trim Boards are designed to cover the ends of ACRE siding for a clean and uniform finish. Rabbeted Trim boards eliminate the possibility of unsightly gaps, making for an even more beautiful finish and seamless installation experience.



## AESTHETIC



## RABBETED TRIM BOARD PROFILE DETAILS



Product Name	Nominal Size	Actual Thickness (A)	Actual Width (B)	Rabbet Length (C)	Lengths
ACRE 5/4" Trim	5/4" x 4", 6", 8"	1"	3.5", 5.5", 7.25"	0.75"	16', 20'



CUSTOM SIDING, TRIM AND SOFFIT APPLICATIONS  
Montauk, NY

PRODUCTS USED:  
ACRE Trim (Custom Milled)

# Siding and Trim Boards Comparison

PRODUCT	WOOD	POLY-ASH
Strengths	<ul style="list-style-type: none"> <li>Natural beauty</li> <li>Easy to work with</li> <li>Biodegradable</li> </ul>	<ul style="list-style-type: none"> <li>Upcycles materials</li> <li>Paintable</li> <li>Moldable and millable</li> <li>Durable and resistant to water, weather, pests and fires</li> </ul>
Challenges	<ul style="list-style-type: none"> <li>High-maintenance</li> <li>Can be expensive</li> <li>Susceptible to water, weather, pests and fire</li> <li>Sustainable sourcing can be challenging</li> </ul>	<ul style="list-style-type: none"> <li>Heavy and fragile</li> <li>Susceptible to denting</li> <li>Can create dangerous dust - requires working outside or respiratory protection</li> <li>Tough on tools</li> <li>Limited warranty</li> </ul>
Aesthetics	***	*
Durability	*	**
Maintenance	*	**

PRODUCT	FIBER CEMENT	ENGINEERED WOOD	ACRE
Strengths	<p>Easy to clean</p> <p>Durable and resistant to water, weather, pests and fire</p> <p>Paintable</p> <p>Upcycles materials</p>	<p>Easy to clean</p> <p>Durable and resistant to water, weather and pests</p> <p>Paintable</p> <p>Easy to work with</p> <p>Upcycles waste materials</p>	<p>Warmth and beauty of real wood</p> <p>Low-maintenance, easy to clean</p> <p>Durable and resistant to water, weather, pests, including termites</p> <p>Thermoplastic formability</p> <p>Infinite finishing options, including staining and painting</p> <p>Lightweight and easy to work with - standard woodworking tools</p> <p>Upcycles waste materials</p> <p>Industry-leading warranty</p> <p>Made in USA, zero-waste manufacturing</p>
Challenges	<p>Needs repainting and end treatment</p> <p>No ground contact</p> <p>Requires special tools</p> <p>Heavy and fragile</p> <p>Maximum length of 12' panels</p> <p>May create harmful dust</p>	<p>Requires paint and repainting</p> <p>Cannot miter</p> <p>Cut edges susceptible to water</p> <p>Heavy</p> <p>Wood fibers make it more susceptible to moisture and fire</p> <p>No ground contact</p>	<p>New building material, requires education</p>
Aesthetics	★	★★	★★★
Durability	★	★	★★★
Maintenance	★	★★	★★★

# ACRE Decking



– Square-Edge



– Grooved-Edge

Experience the beauty and comfort of a wood deck combined with the unmatched sustainability and durability of ACRE Decking.

## AESTHETIC

– ACRE Grain



– Embossed



## DECKING PROFILE DETAILS

SQUARE-EDGE



GROOVED-EDGE



Product Name	Nominal Size	Actual Thickness (A)	Actual Width (B)	Lengths
ACRE Grooved-Edge Decking	5/4" x 6"	15/16"	5.5"	8' to 20'
ACRE Square-Edge Decking	5/4" x 6"	15/16"	5.5"	8' to 20'

## INSTALLATION

Face fasten with our square edge profile.

Or use our recommended fastening systems on our grooved edged profiles:

- CORTEX HIDDEN FASTENER SYSTEM FOR ACRE
- CAMO EDGEX® CLIPS
- CAMO EDGE® CLIPS
- CAMO EDGEXMETAL® CLIPS
- TIGER CLAW HIDDEN FASTENING CLIPS



DEAN SHARP'S CUSTOM BACKYARD DECK  
Thousand Oaks, CA

PRODUCTS USED:  
ACRE Decking

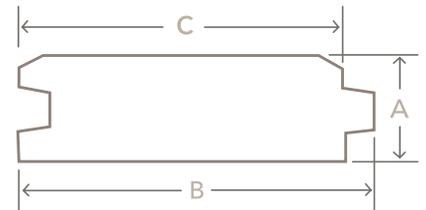
# ACRE Porch Boards



ACRE Porch Boards come in a classic sanded-smooth profile with a tight tongue-and-groove system for minimal gapping between boards.

## AESTHETIC

– ACRE Grain



## PORCH BOARD PROFILE DETAILS

Actual Thickness (A)	Actual Width (B)	Reveal (C)	Lengths
15/16"	3-5/16"	3"	10', 12', 16'

- Locking tongue and groove application for a flat and straight install.



OMNI HOTEL PORCH  
Washington, NH

PRODUCTS USED:  
ACRE Porch

# Decking Comparison

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PRODUCT	WOOD	POLY-ASH
Strengths	<ul style="list-style-type: none"><li>Natural, stainable beauty</li><li>Pleasant feel underfoot</li><li>Easy to work with</li><li>Affordable cost upfront</li><li>Biodegradable</li></ul>	<ul style="list-style-type: none"><li>Low-maintenance</li><li>Resistant to weather and rot</li><li>Upcycles waste materials</li></ul>
Challenges	<ul style="list-style-type: none"><li>High-maintenance</li><li>Exotic woods are expensive</li><li>Susceptible to water, weather, pests and fire</li><li>Can split, crack, gray and decay</li><li>Can be slippery when wet</li><li>Sustainable sourcing is challenging</li></ul>	<ul style="list-style-type: none"><li>Looks and feels synthetic</li><li>Cannot be stained</li><li>Uncapped edges absorb water</li><li>Very hot in the sun</li><li>Heavy</li><li>Susceptible to fading, graying, stains and scratches</li></ul>
Aesthetics	***	**
Durability	*	***
Maintenance	**	***

PRODUCT	COMPOSITES	ACRE
Strengths	<ul style="list-style-type: none"> <li>Low-maintenance</li> <li>Resists water, weather, fire and rot</li> <li>Upcycles waste materials</li> <li>Lighter weight</li> <li>Can be shaped</li> <li>Slip-resistant</li> </ul>	<ul style="list-style-type: none"> <li>Warmth and beauty of real wood</li> <li>Low-maintenance</li> <li>Durable and resistant to water, weather, pests, including termites</li> <li>Slip-resistant</li> <li>Thermoplastic formability</li> <li>Stain or paint without primer</li> <li>Lightweight and easy to work with</li> <li>Upcycles waste materials</li> <li>Industry-leading warranty</li> <li>Made in USA, zero-waste manufacturing</li> </ul>
Challenges	<ul style="list-style-type: none"> <li>Looks and feels synthetic</li> <li>Cannot be stained</li> <li>Requires special tools</li> <li>Susceptible to fading</li> <li>Most do not allow ground contact</li> <li>Can become very hot in direct sun</li> <li>Can mushroom with typical fasteners</li> </ul>	<ul style="list-style-type: none"> <li>New building material, requires education</li> </ul>
Aesthetics	**	***
Durability	***	***
Maintenance	***	***





OMNI HOTEL PORCH  
Washington, NH

PRODUCTS USED:  
ACRE Porch

# ACRE Sheet Goods



Suited for a wide range of applications, ACRE Sheet Goods are the perfect medium for executing your ideas. This revolutionary material can be cut, curved, shaped and molded to fit countless applications, both exterior and interior.

## AESTHETIC



## SHEET GOODS PROFILE DETAILS

Product Name	Thickness (A)	Width (B)	Lengths
ACRE 3/8" Sheet Good	3/8"	4'	8' to 20'
ACRE 1/2" Sheet Good	1/2"	4'	8' to 20'
ACRE 5/8" Sheet Good	5/8"	4'	8' to 20'
ACRE 3/4" Sheet Good	3/4"	4'	8' to 20'
ACRE 1" Sheet Good	1"	4'	8' to 20'



Event Build

THE HEINEKEN® GREENER BAR AT FORMULA 1  
Miami, FL

PRODUCTS USED:  
ACRE Sheets

# Sheet Goods Comparison

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PRODUCT	HIGH DENSITY POLYETHYLENE (HDPE)	PVC
Strengths	<ul style="list-style-type: none"><li>Low-maintenance, Long lasting</li><li>Resists corrosion</li><li>High strength</li><li>Durable and resistant to water, weather and pests</li></ul>	<ul style="list-style-type: none"><li>Low-maintenance</li><li>Durable and resistant to water, weather and pests</li><li>Resists water, weather, fire and rot</li><li>Thermoplastic formability</li><li>Lighter weight (if foamed)</li><li>Can be shaped, molded and milled</li></ul>
Challenges	<ul style="list-style-type: none"><li>Heavy</li><li>Expensive</li><li>Sensitive to stress cracking</li><li>High coefficient of thermal expansion</li><li>Difficult to bond</li><li>Looks and feels synthetic</li><li>Inventory position with colors</li></ul>	<ul style="list-style-type: none"><li>Looks and feels synthetic</li><li>Cannot be stained</li><li>Susceptible to fading</li><li>Inventory position with colors</li></ul>
Aesthetics	★	★★
Durability	★★	★★
Maintenance	★★★	★★

PRODUCT	TRADITIONAL COMPOSITES	ACRE
Strengths	<p>Easy to work with Upcycles waste materials</p> <p>High Strength</p>	<p>Warmth and beauty of real wood</p> <p>Low-maintenance</p> <p>Durable and resistant to water, weather, pests, including termites</p> <p>Thermoplastic formability</p> <p>Stain or paint without primer</p> <p>Upcycles waste materials</p> <p>Industry-leading warranty</p> <p>Made in USA, zero-waste manufacturing</p>
Challenges	<p>Requires maintenance</p> <p>Cut edges susceptible to water</p> <p>Cannot be stained</p> <p>Wood fibers make it more susceptible to fire and moisture</p>	<p>New building material, requires education</p>
Aesthetics	★★	★★★
Durability	★	★★★
Maintenance	★	★★★

# Accessories

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We highly recommend using the following accessories and adhesives to ensure that ACRE products perform as designed and to expectations.

Refer to our [installation guides](#) and [product expectations page](#) before installation.



CORTEX HIDDEN FASTENER SYSTEM FOR ACRE  
Compatible with ACRE Decking, Siding and Trim.

CAMO EDGE® CLIPS  
Compatible with ACRE Decking.

CAMO EDGEX® CLIPS  
Compatible with ACRE Decking.

CAMO EDGEXMETAL® CLIPS  
Compatible with ACRE Decking on metal framing.



TIGER CLAW HIDDEN FASTENING CLIP  
Compatible with ACRE Grooved Decking.

# Adhesives

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We recommend using a PVC glue or cement, polyurethane glue or construction adhesives. Do not use wood glue. Refer to our [installation guides](#) and [product expectations page](#) before installation.



TITEBOND PVC TRIM JOINT ADHESIVE  
Compatible with all ACRE products.



SHIPLAP SIDING  
Braintree, MA

PRODUCTS USED:  
ACRE Shiplap Siding

# Services available to you

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## PRODUCT

We offer technical support and product training including AIA Lunch & Learns, product demonstrations, training and support for customer events.



## MARKETING

Modern Mill supports your business with sales enablement tools including:

- Digital marketing and social media support
- Point-of-purchase and merchandising
- Samples
- Custom marketing requests



## SALES

- Steady and reliable production
- Support for customer presentations and meetings
- Lead generation
- Market and trend analysis to optimize overall sales strategy



## SERVICE

We offer exceptional customer service experiences ensuring you have the information and support you and your customers need. Count on regular engagement with Modern Mill's Leadership team.



Furniture/Event Build

LUMINOUS WAVEFORMS BY PHIL SPITLER  
Northern, CA

PRODUCTS USED:  
ACRE Sheets

# ACRE™ BY MODERN·MILL

## PRODUCT EXPECTATIONS

### Installation Guides

ACRE contains PVC. It's important to familiarize yourself with its spacing requirements, coatings and all installation guidelines. This will ensure ACRE products perform as designed and to expectations.

- Trim
- Siding
- Decking
- Porch Boards
- Fencing

### Coating and Finishing

**PROPER INSTALLATION REQUIRES CLOSE ADHERENCE TO MODERN MILL COATINGS GUIDELINES:** This is a critical and important step, especially with outdoor applications for ACRE to perform as expected and to avoid the effects of excessive expansion and contraction.

ACRE does not absorb paints, stains, or clear coats as typical woods products do. For best results, we recommend applying coatings with boards on a smooth flat surface prior to installation.

ACRE products generally will not gray like natural woods in exterior applications. However, color may fade over time with increased UV exposure, therefore a UV-resistant stain or paint can help resist fading and make for easier cleaning and care.

### Movement

**ACRE WILL EXPAND AND CONTRACT WITH ENVIRONMENTAL TEMPERATURE CHANGES. INSTALLATION CONDITIONS AND FINISH COLOR WILL IMPACT EXPANSION AND CONTRACTION.** Refer to the proper product installation guide to ensure the best product performance and minimize the effects of expansion and contraction.

### Fasteners

**USING THE CORRECT TYPE AND NUMBER OF FASTENERS WILL ENSURE MATERIALS PERFORM AS INTENDED. DO NOT USE BRADS, FINISH NAILS OR STAPLES.** Fasteners must penetrate solid framing members. All projects and designs are unique. For any installation questions please contact your Modern Mill Rep.

### Heat Retention

Coatings will affect product performance, including heat retention, therefore it's important to read the [Coatings Guide](#) and use manufacturer approved coatings and finishes.

### Burning Warning

Safety Warning: Do not burn ACRE products or scraps. ACRE products are not safe to be discarded by burning, used as a firewood, kindling or as any other source of fuel to create and / or maintain a fire or heat source.

### Storage and Handling

We recommend keeping ACRE in a cool, dry spot, out of direct sunlight. Please acclimate ACRE products prior to installation. Always install ACRE immediately after making any cuts.

### Adhesives

We recommend utilizing a PVC glue or cement, polyurethane glue or construction adhesives. **Do not use wood glue.**

### Stains and Cleaning

ACRE products can be stained by certain foods, drinks and chemicals. Clean up any stains or dirt as quickly as possible and keep areas clean from debris. Soap and water, or a product like Simple Green® can clean most stains. In some cases, light sanding may be required. If using a power washer, we do not recommend pressure above 2500 psi and to use a wide fan tip or oscillating tip and keeping the tip a minimum of 12" from the surface.

### Surface Marring (Scuffs) and Light Surface Damage

Like wood, ACRE might endure some dings, dents or marring on the job. Most light surface damage can be removed by simply sanding ACRE lightly with 120 grit sandpaper on a pole or block sander in the direction of the grain. Please note, less than 120 grit sandpaper may scratch the surface and affect the finish when stain is applied. We do not recommend the use of an orbital or palm sander as this can affect the ACRE grain structure.

### Environmental Impact

ACRE by Modern Mill is made from upcycled rice hulls in a zero-waste manufacturing facility in the U.S.A. ACRE is tree-free, and free of phthalates, phenol, formaldehyde and adhesives. Contact us at [zen@modern-mill.com](mailto:zen@modern-mill.com) to learn about options for recycling.

### Warranty

ACRE products have a limited lifetime guarantee to be free from material defects that are a result of the manufacturing process, rotting or splintering as a direct result of the manufacturing process or by normal use and service provided conditions described in all installation materials and technical guides are met. In no event shall Modern Mill be responsible or liable for labor, installation, re-installation, freight, taxes or any other charges related to defective product. Visit our website to learn more: [www.modern-mill.com/warranty](http://www.modern-mill.com/warranty)

MODERN·MILL

601-869-5050  
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[modern-mill.com](http://modern-mill.com)

WE'RE HERE TO HELP.

Be sure to visit our online **Tech & Training** center for informative technical videos and downloads.





SHIPLAP SIDING  
Laguna Beach, CA

PRODUCTS USED:  
ACRE Shiplap Siding





SHIPLAP SIDING  
Kirkland, WA

PRODUCTS USED:  
ACRE Shiplap Siding



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