

# KIREI BOARD

**kirei**  
natural design innovation



## Beautiful Natural Materials

A beautiful natural Interior millwork material made with renewable, non-toxic components. Strong, lightweight and environmentally friendly, Kirei Board is an easily worked engineered panel product usable in nearly any architectural application.

## Environmental Benefits

Kirei Board is manufactured reclaimed waste sorghum straw - a rapidly renewable food plant resource. Until now, these stalks have been discarded or burned, adding to landfill waste and air pollution. Kirei Board helps reduce this waste and ease deforestation by substituting for wood. In addition, Kirei Board is made using zero VOC adhesive, helping reduce toxic formaldehyde VOC's released into the ambient indoor air.

## Kirei Board & LEED

Kirei Board can be an excellent way to help your projects qualify for LEED credit for environmentally friendly construction.

## Dimensions:

<b>Sheet Size</b>	910mm x 1820mm (3'x6')	
<b>Thickness</b>	10mm (.39")	
	20mm (.79")	
	30mm (1.18")	
<b>Sheet Weight (3'x6' sheet)</b>	10mm	22.4 lbs
	20mm	38.0 lbs
	30mm	43.8 lbs
<b>Density</b>	10mm	39.07 lbs/ft <sup>3</sup>
	20mm	32.52 lbs/ft <sup>3</sup>
	30mm	24.99 lbs/ft <sup>3</sup>

*organic contemporary*

# RESIDENTIAL

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**Kitchen Cabinetry**  
Basile Studio  
San Diego, CA



**Cabinetry & Millwork**  
Union Studio  
San Francisco, CA



**Bathroom Vanity**  
Basile Studio  
San Diego, CA



**Organo Coffee Table**  
Organo Natural Furnishings  
San Diego, CA

# HOSPITALITY

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**Bartop**  
La Quinta Resort & Spa  
La Quinta, CA



**Bathtub Surround**  
Kohler Co.  
05' Catalog



**Restaurant Table**  
Loews Hotel  
Los Angeles, CA



**Cafe Table**  
Gingergrass Restaurant  
Los Angeles, CA

# COMMERCIAL

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**331 Desk**  
Designer: John Bruce  
Houston, TX



**Reception Desk**  
Palm Desert Visitors Center  
Palm Desert, CA



**331 Conference Table**  
Designer: John Bruce  
Houston, TX



**Desk Vanity Cover**  
Centex Homes Showroom  
San Diego, CA

# DISPLAY

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**Retail Lifestyle Display**  
Whole Foods Market  
Santa Monica, CA



**Retail Cabinetry**  
Natural Body Spa Store  
Atlanta, GA



**Decorative Panels**  
Trade Show Booth  
Prana, Outdoor Retailer Show, 2005



**Shelves & Drawers**  
Pyra Aveda Store  
Boston, MA



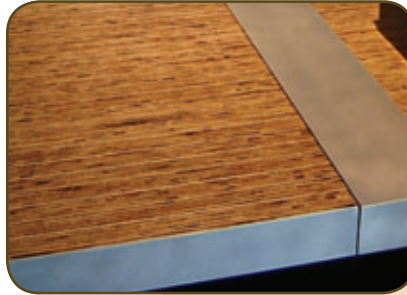
**Aisle Marker**  
Whole Foods Market  
North Carolina, USA

# TABLE TOP

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## Kirei Tables and Counters

Kirei Board can be used as a construction element for tables, counters, bar tops and other horizontal surfaces. Kirei Board is worked much like fine wood, with a comparable water resistance, so finish appropriately for use in areas with exposure to water. For high-traffic applications or repeated impacts, a thicker, harder resin finish may be recommended, or protect the Kirei Board with a sheet of glass.



## Innovation?



The limits of possible applications for Kirei Board have yet to be found. We rely on you, the designer to find the newest ideas for Kirei Board and our other natural design materials.



design by Julia Palomaki

# KIREI BOARD



## Kirei Board Installation Instructions

Kirei Board is an engineered strawboard panel product suitable for many types of architectural millwork. The milling and finishing characteristics are much like wood of similar dimension, with similar bending and breaking strength. Kirei Board is millable using standard fabricating techniques applicable for wood-based products.

### Cutting:

For best results use a high-quality saw blade, feeding the material at a uniform speed through the saw. Solidly back panels to prevent chipping along kerf on the saw tooth exit side. Finishing material with a sealer coat can help avoid chipping along saw cuts.

### Drilling:

A high-speed drill is recommended. To avoid chipout or breakage on the exit side, back the panel with scrap material.

### Routing:

Kirei Board can be routed using standard routing techniques. A speed of 20,000 RPM is recommended using double-fluted router bits.

### Filling:

Standard wood putty can be used to fill any chips or holes caused by cutting and sanding. Select a color that best matches the color of Kirei Board or your finish color.

### Fastening:

All fastening methods may be used, including nail, staples, rivets, screws, bolts, glue or combination. Type A or AB, sheet metal, twin fast types and fully threaded screws designed for use in particle board offer better withdrawal resistance than wood screws. Pre-drilled pilot holes are recommended for the size screw used. If nailing, use spiral or ring shank nails for extra holding power.

(Note: Nailing or screwing into edge grain may result in lower screw holding power due to fewer cross-layers being engaged.)

### Finishing:

Kirei Board panels can be filled, sealed, painted, stained or varnished with most commercial finishing materials including short and medium oil length primers, fillers, lacquers, and synthetic base coats and topcoats and high temperature bake and acrylic and epoxy systems. The panels should be at stable room temperature (70 degrees F and higher) when coated. Kirei recommends Low-VOC emission finishes.

### Bending:

Kirei Board panels can be bent using standard woodworking techniques. We have achieved an 8 foot radius using the 10mm, and further bending has been achieved using other methods.

### Cutting Tip!

For best cutting results, apply a coat of sealer to the boards before cutting. This can help reduce chipout. Pretaping cuts can also help. If edges do chip, use standard wood putty to fill.

### Finishing Tip!

Kirei Board is somewhat porous to finishes. It may be advisable to apply additional coats of sealer to achieve the look and finish desired.

## FLOORING INSTALLATION

Kirei is a custom flooring installation. A vapor barrier and plywood underlayment are recommended. The Kirei Board can be glued or nailed down with standard installation techniques. Use multiple coats of standard commercial flooring finishes to handle the expected traffic.

