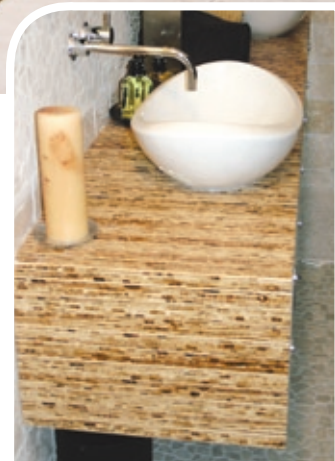


Kirei Board

zen modern



Modular Console | Designer: Paul Basile



Sink Wrap | Zapher Residence

The Tao of Kirei:

Pronounced "Key'-ray," Kirei is the Japanese character signifying "clean" or "beautiful."

We have chosen Kirei as the name for our company to reflect our dedication to the principles of elegant, sustainable design.

Kirei Board is a strong, lightweight, durable, environmentally friendly substitute for wood—usable in furniture, cabinetry, casework, and interior design elements. Manufactured from reclaimed sorghum straw and no-added-formaldehyde adhesive, Kirei board brings a beautiful new element to modern interior design.

Use **Kirei Board** in architectural, millwork and finished product applications:

Architectural Millwork	Interior Design
Wall Covering	Cabinetry
Retail Displays	Flooring
Furniture	Restaurant
Finished Products	Hotel

Kirei and LEED

Kirei design elements can help your projects gain LEED credit for environmentally friendly construction.



Beautiful : Natural : Sustainable

Signature 2.0 Cabinet
Iannone Design

kirei™

For purchasing information:

Kirei USA
1805 Newton Avenue
San Diego, CA 92113
TEL 619-236-9924
FAX 240-220-5946
www.kireiusa.com
info@kireiusa.com

Kirei Board Specifications:

Kirei Board is a composite panel board manufactured from reclaimed stalks of the sorghum plant, poplar wood bonding layers and KR Bond, an adhesive that emits no formaldehyde. Strong, lightweight and environmentally friendly, Kirei Board has been in use for wall covering, cabinetry, furniture, flooring and other decorative and finished products since 1995.

Dimensions:

Sheet Size	910mm x 1820mm (3'x6')	
Thickness	6mm (.24") 10mm (.39") 20mm (.79") 30mm (1.18")	
Sheet Weight		
(1'x6' sheet)	6mm	4.5 lbs
(3'x6' sheet)	10mm	19 lbs
(3'x6' sheet)	20mm	35 lbs
(3'x6' sheet)	30mm	45 lbs
Density		
	10mm	33.3 lbs/ft3
	20mm	22.3 lbs/ft3
	30mm	22.3 lbs/ft3

Physical Properties:

Modulus of Rupture	1800mm	200kg3/cm2
	900mm	75 kg3/cm2
Modulus of Elasticity	1800mm	2.80 x 10 kg3/cm2
	900mm	0.78 x 10 kg3/cm2
Internal Bond	1.5 kg/cm2	
Screw Holding Power	Face 25 Kg	
	Edge 10 Kg	
Flame Spreading (UL-HBF)	3.025 inch/second	



Environmental Benefits

Kirei Board reduces forest clear-cutting, air pollution and landfill use. The sorghum stalks used in the manufacture of Kirei Board are a rapidly renewable resource left after the edible portion of the plant is harvested.

Reduced Waste

Until now, these stalks have been discarded or burned, adding to landfill waste and pollution. Kirei Board helps reduce this waste and ease deforestation by substituting for wood.

Zero VOC

In addition, Kirei Board is made using a non-toxic adhesive that does not emit toxic formaldehyde.

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

Kirei Board Adhesive

KIREI board is manufactured using KR Bond, a water-based polymer-isocyanate adhesive. Formaldehyde-free KR Bond does not contribute harmful Volatile Organic Compounds (VOCs) to the indoor atmosphere. Testing according to Japanese Government standard JIS A 6922-2003 resulted in 0.0 mg/L formaldehyde emission.

Fabrication Guidelines

Kirei Board is machinable 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:

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.

Edge Treatment:

The exposed edges of Kirei Board are intended to be finished, unless the type of application does not require a more finished appearance than sanding affords. If shaped exposed edges are required, filling, sanding and painting of the edge will provide a satisfactory finish. Kirei Board can be edge banded with most commercial edge treatments using standard adhesives.



Modular Storage Unit | Designer: Julia Palomaki

Kirei WheatBoard

clean, green MDF



Kirei WheatBoard is the answer to formaldehyde-emitting wood MDF products. With working characteristics meeting and often surpassing those of commercially available MDF, plus renewable source materials and non-toxic adhesives, Kirei Wheatboard gives you a clean slate to build what your mind designs. Projects and products receive **LEED™** credit for rapidly renewable material, recycled content, and indoor air quality.

Use **Kirei WheatBoard** in architectural, millwork and finished product applications:

Architectural Millwork	Interior Design
Wall Covering	Cabinetry
Retail Displays	Flooring
Furniture	Restaurant
Finished Products	Hotel

IT'S WHAT'S INSIDE.

Kirei and LEED

Kirei design elements can help your projects gain LEED credit for environmentally friendly construction.

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Beautiful : Natural : Sustainable



kirei™

For purchasing information:

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FAX 240-220-5946
www.kireiusa.com
info@kireiusa.com

Kirei WheatBoard Specifications:

Use Kirei WheatBoard in millwork, cabinetry and finished product applications for a renewable, non-toxic alternative to MDF. Kirei Wheatboard can be painted or laminated with a wide variety of surface treatments including our Kirei Bamboo Veneers.

Dimensions:

Sheet Size	1220mm x 2440mm (48"x96")
Wheatboard Thickness	12.7mm (1/2")
	15.8mm (5/8")
	17.5mm (11/16")
	19.1mm (.75")
	Tolerance +/- 0.005"
Sheet Weights	
(1/2")	54 lbs
(5/8")	62 lbs
(11/16")	71 lbs
(3/4")	81 lbs
Mean Density	40-41 lbs./f3

(Larger sizes available for laminating applications)
Custom thicknesses & sizes available

Physical Properties:

Modulus of Rupture	2176 psi
Modulus of Elasticity	311,832 psi
Internal Bond	79.77 psi
Screw Holding Power Perpendicular to Plane	247 lbf
Withdrawal from Edge	157 lbf
Internal Bond	79.77 psi
Thickness Swell (24-hour immersion)	8%
Water Absorption (24-hour immersion)	20%
Moisture Content	8%



Environmental Benefits

Kirei WheatBoard reduces forest clear-cutting, air pollution and landfill use. The wheat stalks used in the manufacture of Kirei WheatBoard are a rapidly renewable resource left after the edible portion of the plant is harvested.

Reduced Waste

Until now, these stalks have been discarded or burned, adding to landfill waste and pollution. Kirei WheatBoard helps reduce this waste and ease deforestation by substituting for wood.

Zero VOC

In addition, Kirei WheatBoard is made using a non-toxic adhesive that does not emit toxic formaldehyde.

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

Kirei WheatBoard Adhesive

KIREI Wheatboard is manufactured using a no-added-formaldehyde MDI adhesive which does not contribute harmful Volatile Organic Compounds (VOCs) to the indoor atmosphere.



Fabrication Guidelines

Kirei WheatBoard is machinable 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:

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 KireiWheat 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 WheatBoard 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.

Edge Treatment:

The exposed edges of Kirei WheatBoard are intended to be finished, unless the type of application does not require a more finished appearance than sanding affords. If shaped exposed edges are required, filling, sanding and painting of the edge will provide a satisfactory finish. Kirei WheatBoard can be edge banded with most commercial edge treatments using standard adhesives.

Kirei Bamboo

organic contemporary



Table Edge Detail
Horizontal Natural
3/4" Kirei Bamboo

Table + Chairs | Guild Restaurant
Horizontal Carbonized Kirei Bamboo



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Pronounced "Key'-ray," Kirei is the Japanese character signifying "clean" or "beautiful."

We have chosen Kirei as the name for our company to reflect our dedication to the principles of elegant, sustainable design.



Kirei Bamboo is an eco-friendly panel material with a variety of surface and millwork looks usable in modern interior design and finished products. Bamboo is a rapidly renewable, sustainable resource, and we use no added formaldehyde for the production of our panels, so Kirei Bamboo can help your projects meet **LEED™** specifications.

Use **Kirei Board** in architectural, millwork and finished product applications:

- | | |
|------------------------|-----------------|
| Architectural Millwork | Interior Design |
| Wall Covering | Cabinetry |
| Retail Displays | Flooring |
| Furniture | Restaurant |
| Finished Products | Hotel |

Kirei and LEED

Kirei design elements can help your projects gain LEED credit for environmentally friendly construction.



Coaster Holder by Organo
Horizontal Carbonized | 10mm

Beautiful : Natural : Sustainable

kirei™

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San Diego, CA 92113
TEL 619-236-9924
FAX 240-220-5946
www.kireiusa.com
info@kireiusa.com

Kirei Board Specifications:

Kirei Bamboo is an eco-friendly modern millwork material manufactured from the fast-growing trunks of the Moso Bamboo plant and a no-added-formaldehyde adhesive. Bamboo Paneling is strong and dense, and can be used in a wide variety of millwork applications.



Specifications:

Sheet Sizes 4'x8' Sheets
Thickness
 Veneer .6mm (.24")
 10mm (.39")
 19mm (.75")
Custom thicknesses available

Face Grain styles:	Colorways:	Lamination Styles:
Horizontal Grain	Natural	Veneer
Vertical Grain	Amber/	Solid
Zebra	Carbonized	3-Ply Horizontal Core
	Zebra	3-Ply Vertical Core

Environmental Benefits

Rapidly Renewable

Kirei Bamboo reduces forest clear-cutting and indoor air pollution. Bamboo is a rapidly renewable resource with a fast growth cycle, resulting in higher material yield per acre than tree planting.

No Added Formaldehyde

In addition, Kirei Bamboo is made using a no-added-formaldehyde MDI adhesive.

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



Fabrication Guidelines

Kirei Bamboo is machinable 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:

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 Bamboo 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 Bamboo 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.

Edge Treatment:

The exposed edges of Kirei Bamboo are intended to be finished, unless the type of application does not require a more finished appearance than sanding affords. If shaped exposed edges are required, filling, sanding and painting of the edge will provide a satisfactory finish. Kirei Bamboo can be edge banded with most commercial edge treatments using standard adhesives.



Cutting Board | Designer: Paul Basile