

Specifications:

Kirei Board is a composite panel manufactured from reclaimed sorghum straw, poplar wood bonding layers and a water-resistant no-added formaldehyde adhesive . Strong, lightweight and environmentally friendly, Kirei Board is perfect for wall covering, cabinetry, furniture, flooring and finished products in residential, commercial, hospitality and institutional applications.

Dimensions:

Sheet Thickness	Size	Weight
6mm (.24")	1'x6'	4.5 lbs
10mm (.39")	3'x6'	19 lbs
20mm (.79")	3'x6'	35 lbs
30mm (1.18")	3'x6'	45 lbs

All Kirei Board panels come unfinished.

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

Fire Rating	Class C (May be treated to reach Class A)
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Environmental Benefits

Reduced Waste/Zero VOC/Carbon Sequestration

Kirei Board reduces forest clear-cutting, air pollution and landfill use. The reclaimed sorghum stalks used are a rapidly renewable resource left after the edible portion of the plant is harvested, and the removal of the stalks from the waste stream helps sequester carbon, making Kirei Board a carbon-negative material. Kirei Board is made using a no-added formaldehyde adhesive, keeping toxins out of the indoor environment.

Kirei Board & LEED

MR 4.1/4.2 Recycled Content
Minimum 80% post-industrial recycled material:
Sorghum Straw

MR 6 Rapidly Renewable Materials
Minimum 80% rapidly renewable raw material:
Sorghum straw

EQ 4.4 Low-Emitting Materials: Composite Wood
No Added Urea Formaldehyde

Fabrication Guidelines

Kirei Board is worked using standard fabricating techniques applicable for wood-based products.

Acclimation

Kirei Board is dimensionally stable in most climate conditions. For best results acclimate Kirei Board laying flat in a well-ventilated area for at least one week prior to use.

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 prior to cutting can help avoid chipping along saw cuts.

Drilling/ Routing

A high-speed drill is recommended. To avoid chipout or breakage on the exit side, back the panel with scrap material. A speed of 20,000 RPM is recommended using double-fluted router bits.

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. 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/Staining/Filling

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. 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. Test your stains and finishes prior to use on finish material (Wet applications: Kirei Board should be finished appropriate to expected water traffic with sufficient clearcoat to form a water barrier. Finish all exposed sides in wet or moist applications)

Edge Treatment

The exposed edges of Kirei Board are intended to be finished.. If shaped exposed edges are required, filling, sanding of the edge will provide a satisfactory finish. Kirei Board can be edge banded with most commercial edge treatments using standard adhesives.

Kirei board is recommended for interior use only.



CURVED?

Kirei Board 6mm and 10mm can be bent for curved applications



Kirei Board

// beautiful natural materials



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KIREI BOARD is manufactured from reclaimed sorghum straw and no-added-formaldehyde adhesive, bringing a beautiful new element to modern interior design.

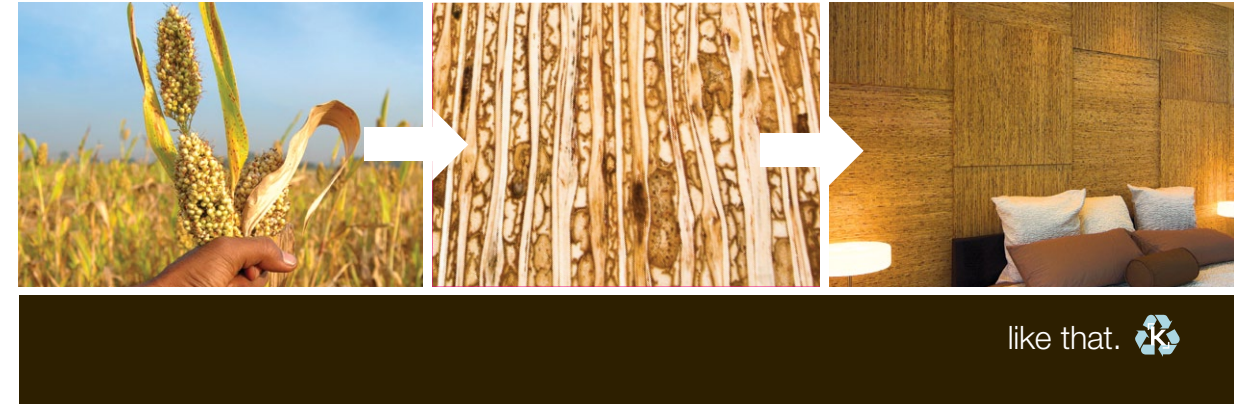
zen

modern

Kirei Re:new

to that

to this



ARCHITECTURAL MILLWORK / WALL COVERING / CABINETRY / RETAIL DISPLAYS / COMMERCIAL / FLOORING / FURNITURE / RESTAURANT / HOTEL / RESIDENTIAL