

Kirei WheatBoard

clean green panels



Kirei Wheatboard Display Panels
Miami Science Museum

Kirei WheatBoard is the answer to formaldehyde-emitting wood MDF products. With working characteristics meeting and often surpassing those of commercially available MDF or particle board, plus renewable source materials and non-toxic adhesives, Kirei WheatBoard gives you a clean slate to build what your mind designs. Projects and products can 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

Kirei and LEED

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

IT'S
WHAT'S
INSIDE.



Laminated Wheatboard Panels
Sangre De Cristo School, Mosca, CO

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 Wheatboard
Laminate it? Clear-coat? You design.

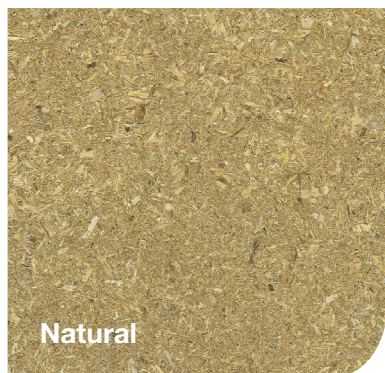
kirei

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Kirei WheatBoard Specifications:

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



Natural

Physical Properties:

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

(Class A Rated door core available, Standard wheatboard may achieve Class A rating using flame retardants)

Dimensions:

Standard Sheet Size	Density
48"x96" (1220mm x 2440mm)	750 kg/m ³ +/- 50 kg/m ³ (Average across sheet thicknesses)

Stock Thicknesses

Sheet Weights
1/2" 54 lbs
3/4" 81 lbs
5/8" 68 lbs
11/16" 75 lbs
1" 108 lbs

Tolerance +/- 0.005"

Kirei panels are composed of natural raw materials and may show color variation.

All Kirei panels come unfinished.

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

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. Keeping this material out of landfills sequesters the carbon that would otherwise be released. The adhesive used has no added Urea Formaldehyde and releases no VOC emissions. Kirei WheatBoard helps reduce this waste and ease deforestation by substituting for wood.

Kirei WheatBoard Panels and LEED

Kirei WheatBoard Panels can be an excellent way to help your projects qualify for LEED credit for environmentally friendly construction, including:

MR 4.1/4.2	Recycled Content Over 70% post-industrial content
MR 6	Rapidly Renewable Materials Wheat is grown in a harvest cycle of 10 years or less
IEQ 4.4	Low-Emitting Materials No added urea formaldehyde

Kirei Wheatboard office desks
Ecohub, San Diego, CA

Fabrication Guidelines

Handling:

Store Kirei WheatBoard indoors on a flat, level surface with adequate support to prevent sagging. Kirei WheatBoard should be conditioned to the local environment prior to installation.

Fastening:

Kirei WheatBoard is worked using standard fabricating techniques applicable for wood-based particleboard products and will accept standard fasteners including staples, screws, and standard wood glues. Fully threaded screws designed for use in particle board offer better withdrawal resistance than wood screws.

Finishing/Laminating:

Kirei WheatBoard panels can be finished using most standard commercial wood finishes applicable for particleboard. Check finish manufacturer specs for proper finish application instructions. The panels should be at stable room temperature when coated. Kirei WheatBoard can be used as a substrate for TFM (Thermal Fused Melamine), HPDL (High Pressure Decorative Laminates) and hardwood veneers.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Kirei. All data including physical properties are based on averages of normal production of most common thickness. Any data provided on this sheet relates to the specific materials designated herein and is subject to change without notice. Kirei assumes no legal responsibility for the use of reliance upon this data.