



ACRE™ Sheet

Groundbreaking Eco-Friendly Wood
& Composite Alternative

Description and Overview

ACRE™ sheets are created from a rapidly renewable resource: discarded natural rice husk fibers. The process used to make them is both zero-waste and free of any tree-related materials. Unlike plastics that mimic wood's appearance, ACRE™ is free of additives such as phenol, formaldehyde, and adhesives. This material is fully sustainable and eco-friendly in many ways.

Due to its rice husk origins, ACRE™ is 100% waterproof and resists pests like termites as well as fungal growth. It has excellent weatherability – unlike wood, ACRE™ sheets will not crack, warp, splinter, or fade and have a high resistance to UV rays.

Applications and Uses

ACRE™ is rated UL94 V-0 versus fire. It is thermoformable and thus moldable into a variety of shapes, something that wood and some composite substitutes are not capable of. This material can be used with a wide assortment of glues and accepts screws and nails with a flush finish. Standard woodworking tools and patching or filling materials work just as well with ACRE™ as they do on natural wood.

- Siding & trim
- Cladding
- Decking & patios
- Furniture & cabinetry
- Fencing
- Doors & windows
- Garage doors
- Pergolas & flooring
- Outdoor showers
- Bathrooms
- Decorative accents



ACRE Sheet is available in natural, unstained grade.
Full sheet: 48" x 96"
Thicknesses: .25", .5", .75"

Properties and Specifications

Property	ACRE Sheet
Density	37.46 lb/ft. ³
Tensile modulus	101,526 psi
Flexural modulus	116,030 psi
Shear strength	392 psi
Hardness, Brinell	31,908 psi
Water Absorption @ 24 hrs.	< 0.1%
UL 94 rating	V-0
Affixable Properties	Chem / Mech

Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.

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