

# AGRIFIBER UTILIZATION

Evergreen and members of its staff have been active for many years in development and utilization of agricultural fibers (agrifiber) as a raw material resource for processes, primarily in the wood products industry. This annually-renewable resource, often an environmental liability, offers a sensible alternative to wood fiber for many applications.

## Product Development and Prototypes

- Types of agrifiber used: grass straw, cereal straw, rice straw, bagasse, stover
- Prototypes and testing performed:
  - industrial composite panels, structural composite panels, pulp, low-density core, molded products
- Process development:
  - medium density fiberboard (MDF), particleboard, strandboard



## Project Examples

### Agriboard Industries – Dallas, Texas

Utilizing rice straw, developed and tested product prototypes for a replacement panel for OSB (long-strand structural panel) in a built-up wall panel system.

### Harvest Board – Lisbon, North Dakota

Technical consulting to assist with process/start-up issues. Wheat straw, molded product (cabinet doors).

### California Agriboard (CalAg) – Willows, California

Assisted with product prototyping and testing at laboratories in the U.S. and Europe. Provided preliminary engineering for a new greenfield MDF plant using rice straw, including process, layouts, equipment definition, capital cost estimation, and permitting. Serving as CalAg's engineer on the EPC team to design and construct the plant.



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