

INDUSTRIAL PANELS



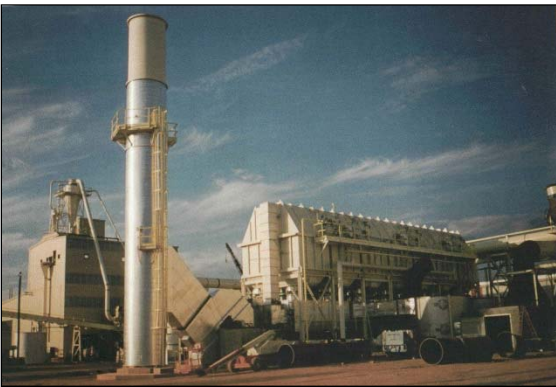
Particleboard and MDF

Evergreen Engineering, Inc. and its technical staff have extensive practical experience in the particleboard and MDF industry. We have been designing new facilities, implementing new technology, and improving process operations at board plants for decades!

We are proficient in all process areas, from raw material handling to finished panels, and are particularly adept with integrating process operations with utilities and central systems. We have specialized expertise in agrifiber and recycled wood raw material applications.

Evergreen appreciates the importance of project planning. We can help to formulate and assess options and tradeoffs early in the planning phase, to achieve maximum leverage and opportunity for success. We can then assist with project scope definition, accurate cost estimation, payback justification, detailed engineering, even construction management, commissioning, and start-up.

We have also been proactive in understanding and developing tools to deal with crucial board plant issues such as raw materials supply, energy conservation, and environmental controls – we can provide innovative solutions in these critical areas.



Project examples on next page



EVERGREEN ENGINEERING

Eugene, Oregon (541) 484-4771 • Atlanta, Georgia (404) 267-1471

www.evergreenengineering.com

California Agriboard MDF

- Conceptual and preliminary engineering for complete MDF plant
- Technical process development
- Technical advisor

CanFibre Riverside MDF

- Start-up assistance, performance test coordination
- Plant technical assessment

Champion International

- Conceptual and preliminary engineering
- Conversion to industrial particleboard

Flakeboard Ltd.

- Raw material screenroom
- Milling system
- MDF fiber capacity

Louisiana-Pacific Corporation

- Plant technical assessment
- Long-term strategic economic forecast
- Rejuvenation conceptual engineering
- RMS and M&D modernization preliminary engineering

Weyerhaeuser Company

- Air pollution equipment upgrades
- Raw material area expansion

Ponderosa Products

- Raw material handling upgrade
- Modernization of refining area

Plum Creek

- Dryer replacement
- Formaldehyde emission control
- Press line upgrade

Confidential Client

- Total plant engineering & environmental permitting for a greenfield MDF plant
- Revitalization of entire production line
- Greenend upgrade
- Pneumatic wood handling systems
- Greenend modernization
- Wood storage and distribution system
- Warehouse and loading

Canpar Industries

- Greenend modernization
- Low H.P. milling techniques

SierraPine

- Raw material storage, pre-sizing, and distribution system
- Concept development and material balance for plant build-out
- Title V permit application
- Sanderdust system modernization conceptual engineering

Willamette Industries

- Particleboard plant rejuvenation
- Radial stacker design
- Biofilter pollution control trial
- Full plant conversion from PB to MDF
- Raw material area expansion