

# RAW MATERIAL SCREEN SYSTEM

**CLIENT:** Flakeboard Company, Ltd.  
**LOCATION:** St. Stephen, New Brunswick

The scope of this project was to design and develop a new screening system to be installed in Flakeboard Company, Ltd.'s existing screen building. The system was designed to screen the raw material feed to two particleboard press lines with a production rate of 600 cubic meters of board per day. The screening system included two separate screening lines, each with a new Rotex gyratory screen and an Acrowood diamond roll screen. The diamond roll screen was purchased with the Variroll option. The IFO setting changes from the infeed to the outfeed end. One of the objectives for the project was to incorporate the new equipment into the existing building while minimizing the time required for tie-ins. Another objective was to reduce the capital costs to minimum. Both of these objectives were achieved.

## SCOPE OF ENGINEERING SERVICES PROVIDED TO FLAKEBOARD COMPANY, LTD.:

- I. Preliminary Engineering
  - a. Developed a new approach to the project by laying out the systems to combine the existing conveying and structural systems with the new equipment.
- II. Detailed Engineering
  - a. Provided engineering including all mechanical, civil, structural, electrical, and control design.
  - b. Wrote technical specifications for all purchased equipment, fabrication, and installation services. Contracts written for lump sum and unit prices depending on activity.
  - c. Assisted owner in selection of all vendor equipment and worked with owner's purchasing department in procuring all equipment, fabrication, and labor required for the project.
  - d. Provided on-site construction supervision and start-up assistance.

## ENGINEERING SCOPE: Detailed Engineering

- Demolition
- Grading, paving, and drainage
- Conveying
- Structural
- Screening
- Selection of equipment
- Control (PLC)
- Field engineering
- Scheduling

