



State-of-the-art report on fibre reinforced polymer (FRP) utilization in wood products

<https://library.fpinnovations.ca/en/permalink/fpipub41302>

Author: Pirvu, Ciprian
 Date: June 2004
 Material Type: Research report
 Physical Description: 35 p.
 Sector: Wood Products
 Field: Sustainable Construction
 Research Area: Advanced Wood Materials
 Subject: Materials
 Series Number: W-2073
 Location: Vancouver, British Columbia
 Language: English
 Abstract: Fibre-reinforced wood systems are light, strong, stiff composites that can efficiently replace larger wood members and can be relied on to provide consistent mechanical properties.

This report is an introduction to fibre-reinforced wood systems for members of the Canadian wood products industry. It provides the motivation for reinforcing wood with synthetic fibres, and surveys the choice of materials and their uses. Numerous examples of current applications are discussed to demonstrate the strong and weak points of various approaches and examine the durability and management of fibre-reinforced wood products, as well as to indicate opportunities that exist for the Canadian wood products industry.

This report is intended to be a useful reference for the Canadian wood products industry, and assist future developments in structural and non-structural applications of fibre-reinforced wood products.

Composite materials - Durability
 Fibres
 Board products - Materials used

Documents



2073.pdf

 Read Online

 Download