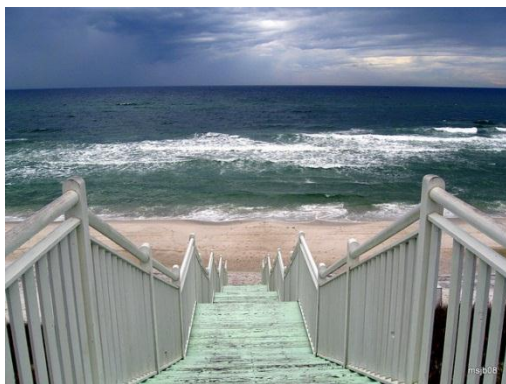


..... a personal beginning.













WhiteCloud

## WhiteCloud Innovations

WhiteCloud Innovations uses resin based technologies in combination with natural fibres to design newest generation construction materials. We use no wood, concrete or metal in our products



## Wood Replacement

We use purpose grown fibre and post-agricultural waste as a replacement for conventional wood products.



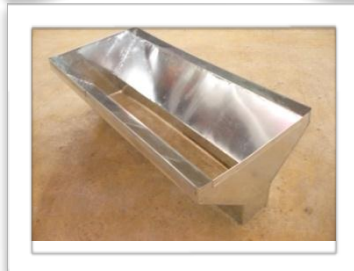
## Rubber Reuse

We have created forms and composites using post-consumer rubber waste and post-agricultural growth.



## Concrete Replacement

We have derived concrete replacement for certain applications using common sand.



## Conventional Construction

Our products are aimed at the conventional construction market.



## Disaster Relief





# Partners

## Academic Community

Universities, Private Science



## Farming Community

Ontario Federation of Agriculture  
Ontario Forage Council  
Grain Farmers of Ontario  
Ontario Ministry of Agriculture, Food and Rural Affairs



## Corporate Community

BlueLinx  
Firestone  
Magna/Woodbridge Foam  
Inline Fibreglass  
BioAmber/Various Chemical Companies  
Ontario Ministry of Trade and Economic Development  
Ontario Agri-Food Technologies



## Legislative Community

National Building Code  
Insurance Underwriters  
National Research Council

IP Creation

Legal Evaluation

Crop Science

Fibre Management

Environmental Policy

Logistics

Most Favoured Nation

Product Placement

Pricing/Formulation

Brand Development

Presale

Legislation

Formal/Bubba Test

Enduring Advantage



## Performance Comparison

	<b>Plywood</b> Construction Grade	<b>OSB</b> Oriented Strand Board	<b>MDF</b> Medium Density Fiberboard	<b>OCB</b> Organic Composite Board
Waterproof.				•
Will not delaminate.			•	•
High density.	•			•
Lightweight.	•			•
Cost effective.		•	•	•
Stainable.				•
Can be color imbedded.				•
Impact resistant.	•			•
Environmentally inert.				•
Flame resistant.				•
Non-carcinogenic.				•

# Flame Spread

---

<b>Wood Panel Type</b>	<b>Flame Spread</b>	<b>Source</b>
1/2" Douglas Fir Softwood Plywood	130-150	American Plywood Association
1/2" OSB (Oriented Strand Board)	174	American Plywood Association
1/2" MDF (Medium Density Fiberboard)	125	Hardwood/Plywood/Veneer Assoc
1/2" Particle Board	135	Hardwood/Plywood/Veneer Assoc
1/2" OCB (Organic Composite Board)	20	

---

## Thickness Swell

<b>Test</b>	<b>Plywood</b>	<b>OSB</b>	<b>MDF</b>	<b>OCB</b>
24 hr submersion	7%	30%	10%	0%

## Lifespan

Test	Plywood	OSB	MDF	OCB
½"x4'x8'	10 years	2 year	1 year	25 year

### Exposure 1 Rating

Classified panels are bonded with a fully waterproof adhesive, are designed for temporary exposure to the elements, but ultimately must be protected and covered by roofing, siding, or another weather-resistant membrane.





Every fibre exhibits unique mechanical and compatibility characteristics.

(crop residues, purpose grown fibre, spent grains, post-consumer waste/coffee beans, fruit pulp, post-industrial waste/rubberwood.

Agricultural material for these applications  
should have genetic consideration.  
(crop risk, fibre yield, mechanical properties)





Responsible growth, soil and harvesting practices.  
(specie consideration, rhizome preservation, optimal cycling)



# WhiteCloud Innovations

## Partners

We are surrounded by good and leading professionals. Cross industry relations from research to manufacturing.

## Fibre Acquisition Program

Money in the farmers hands. Environment Farm Plan (Don McCabe/Gord Surgeoner). Soil Testing.  
Responsible Biomass.

## Research

Large library. Continued private research. Work with National Research Council.

## Products that Work

Well designed, priced, practical.

## Commercialization

WhiteCloud