



**UNIBOARD**®



*Woodworking Machinery & Supply  
Conference and Expo*

# **Panel Primer: What Every Woodworker Should Know**

**Mike Rolston  
Regional Sales Manager  
Uniboard Canada**

# THE PANEL INDUSTRY

- Veneer core and Hardwood Plywood
- Particleboard
- MDF
- TFL (Thermally Fused Laminate)
- Supporting Products
- Certifications & Regulatory Environment

# ABOUT YOU..... ?

- **Woodworkers**
- **Salesmen**
- **Students**
- **Entrepreneurs**
- **Hobby Shop**





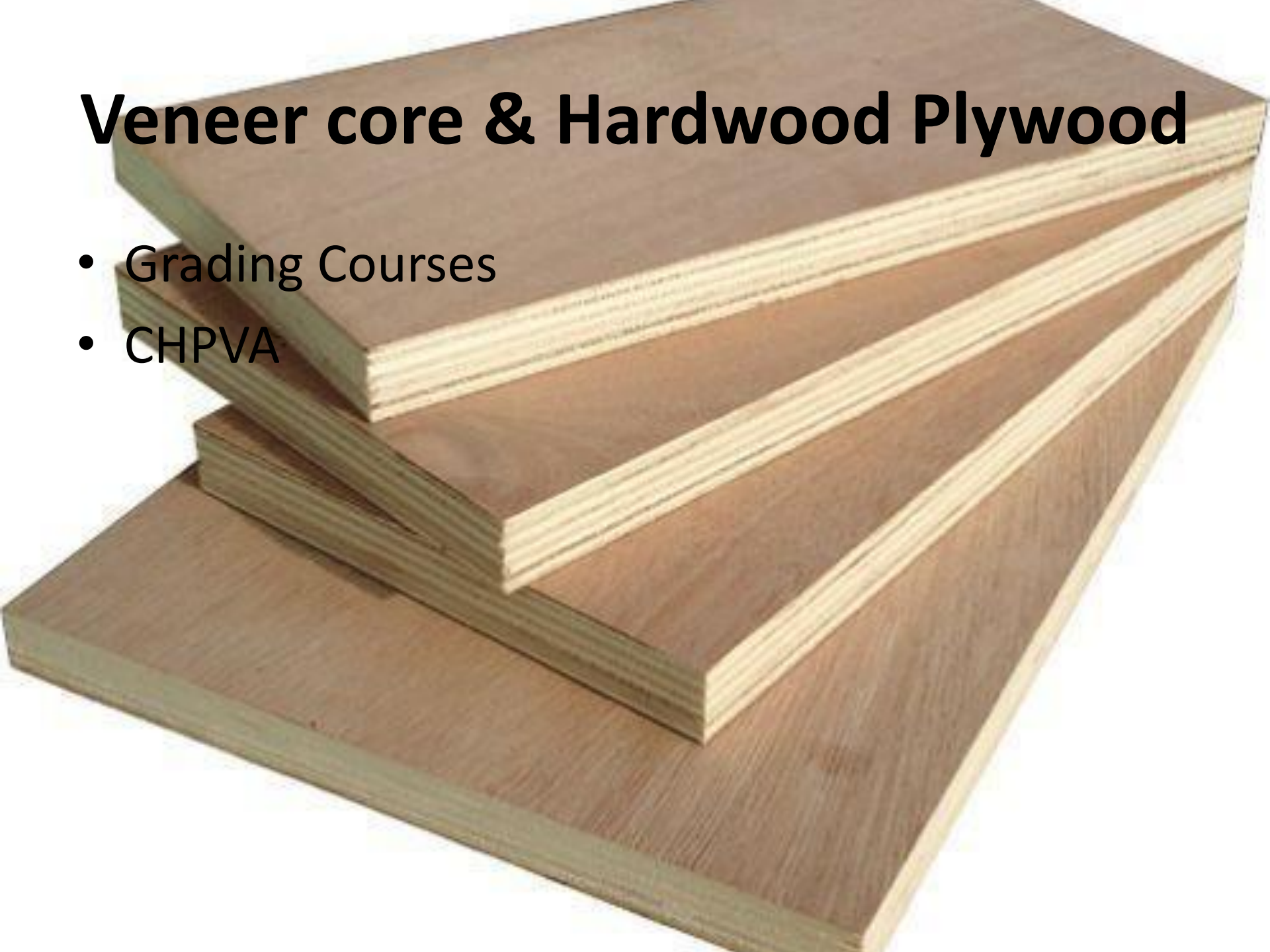


# MANUFACTURERS

- Investments in many areas.....
- Equipment
- New Mills
- Efficiency
- Designs
- Specialty Products

# Veneer core & Hardwood Plywood

- Grading Courses
- CHPVA





# Particleboard

- **GRADES**
- Standards....
- Density, MOE, MOR, Screw Hold .....
- M-S (RTA)
- M-2 (Traditional)
- M-3i (Office, Institutional)
- LD-1 (Doorcore)
- LD-2 (Doorcore)
- FR (Fire Rated)
- NAF – ULEF (Formaldehyde)

**Specific characteristics to serve the needs of every manufacturer.**

# MDF

## MEDIUM DENSITY FIBERBOARD

Standards.....

Density, MOE, MOR, Screw Hold...

**The best substitute to solid wood for painting, laminating, and machining.**

- **GRADES**
- 115 (Standard,, Custom..)
  - Hardwood Plywood
- 130 (The norm....)
  - Mouldings
  - Cabinetry
  - Doors
- 155 ('Plus')
  - Paint grade cabinets and doors
  - Wrapped mouldings
- FR (Fire Rated)
- NAF – ULEF (Formaldehyde)



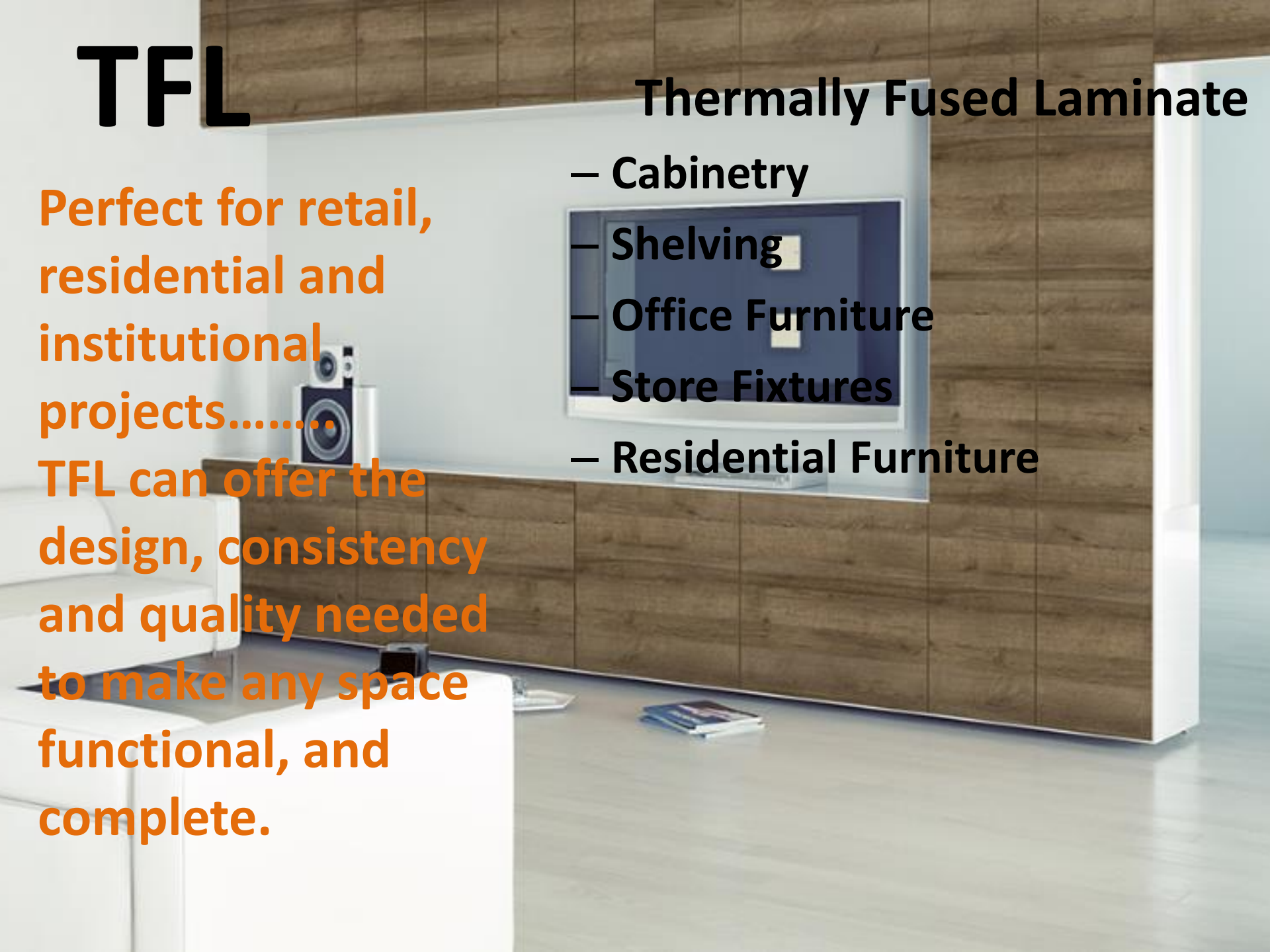
# TFL

Perfect for retail,  
residential and  
institutional  
projects.....

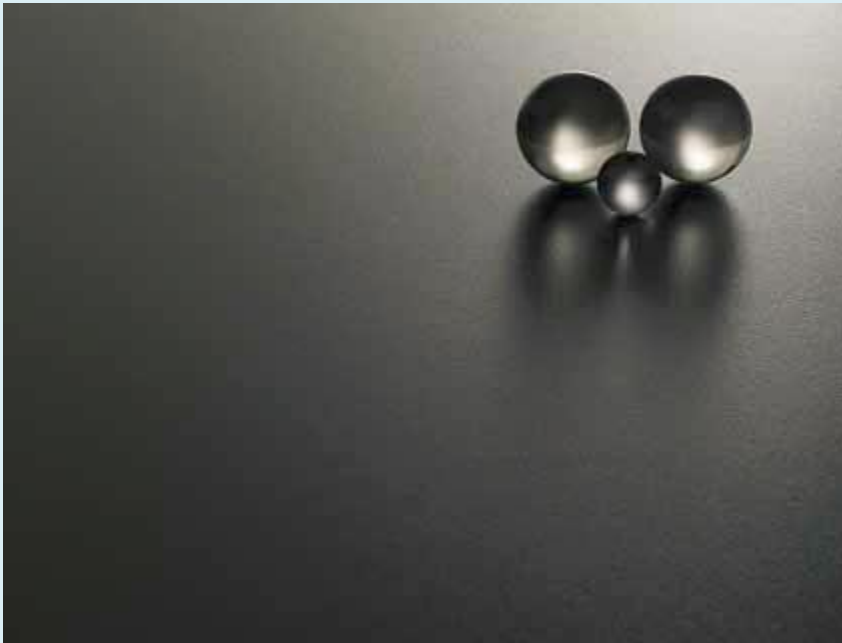
TFL can offer the  
design, consistency  
and quality needed  
to make any space  
functional, and  
complete.

## Thermally Fused Laminate

- Cabinetry
- Shelving
- Office Furniture
- Store Fixtures
- Residential Furniture







- **Dolomite®**
- Often called a basic finish, Dolomite offers a medium reflective quality that hides fingerprints and wear over the long-term.
- It works well with all kinds of projects.



- **Bistro® (Woodgrain)**
- The contemporary linear wood grain of this finish accentuates the look and feel of real wood in all its subtlety.



- **High Gloss**
- This smooth, mirror-like specialty finish adds shine to your decor. It lends an elegant and stylish look to any colour.



- **Supermat®**
- Playing with depth perception, this smooth matte finish is prized for the light touch it adds to any room.





- **Aura (Multiple Gloss)**
- Aura features a complex wood grain and a low-lustre polish that mimics real wood. The soft touch of this finish is perfect for horizontal applications, especially office furniture. It is well-liked for its versatility.



- **Sequoia (Deep Grain)**
- The new Sequoia finish is characterized by a deep relief that provides a pronounced 3D visual.



- **Linen (Fabric Woven)**
- Like a linen fiber, the Calico finish provides all the softness and versatility of a woven material.
- Calico has a chic touch that can suit any decorating project.



# Synchronized Textures



## **Brushed Elm (Synchronized Wood)**

WOODPRINT DUO TECHNOLOGY™

The matte-oiled surface replicates hours of handpolishing, emphasizing the wood's natural cathedral patterns and crossgrain features.

# Synchronized Textures



## **RIVIERA OAK**

**(Synchronized Wood – Multiple Gloss)**

WOODPRINT DUO TECHNOLOGY™

The Riviera Oak finish is the newest texture created by synchronization and gloss levels.

Pushing the boundaries of the likeness of a real wood texture.



# SUPPORTING PRODUCTS

- HPL
- EDGEBANDING
- 3DL
- MOULDINGS
- DOORS
- SLATWALL





# HPL – High Pressure laminate



- **Cover Tooling**
- **Horizontal Surfaces**
  - **Desks**
  - **Countertops**



# Edgebanding, Doors and Mouldings

- **Innovative designs and any creation completed with crowns; valance, moulding for 5 piece doors, or any traditional woodworking component.**



# ENVIRONMENTAL CERTIFICATIONS



# CARB

California Air Resources Board is a part of the California Environmental Protection Agency

**Mission:** To promote and protect public health, welfare and ecological resources through the effective and efficient reduction of air pollutants while recognizing and considering the effects on the economy of the state.



# CARB

**Table 1**

Phase 1 and Phase 2 Formaldehyde Emission Standards for Hardwood Plywood (HWPW), Particleboard (PB), and Medium Density Fiberboard (MDF)<sup>1</sup>

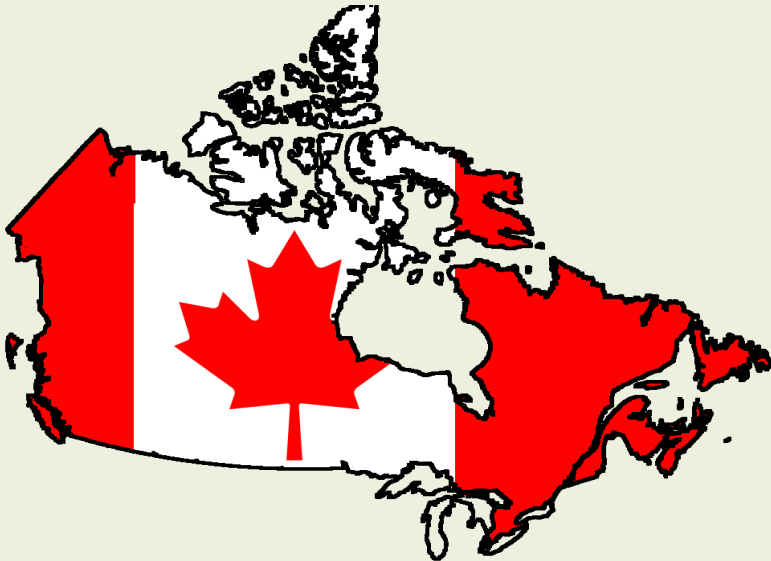
Effective Date	---- Phase 1 (P1) and Phase 2 (P2) Emission Standards (ppm) ----				
	HWPW-VC	HWPW-CC	PB	MDF	Thin MDF
1-1-2009	P1: 0.08	-----	P1: 0.18	P1: 0.21	P1: 0.21
7-1-2009	-----	P1: 0.08	-----	-----	-----
<u>1-1-2010</u>	<u>P2: 0.05</u>	-----	-----	-----	-----
1-1-2011	P2: 0.05	-----	P2: 0.09	P2: 0.11	-----
1-1-2012	-----	-----	-----	-----	P2: 0.13
7-1-2012	-----	P2: 0.05	-----	-----	-----

<sup>(1)</sup> Based on the ~~large chamber~~ primary test method ([ASTM E 1333-96)(2002)] in parts per million (ppm). HWPW-VC = veneer core; HWPW-CC = composite core.

# CARB

**CSA**

CANADIAN STANDARDS ASSOCIATION



**EPA**

ENVIRONMENTAL PROTECTION AGENCY



# ECC™

**ECC™** (*Eco-certified Composite*) New since April 2012

The **ECC™** certification (Eco-Certified Composite) is a voluntary standard developed by the **Composite Panel Association (CPA)**.

To be ECC certified, the mill must first meet the strict emission requirement of CARB Phase 2 for composite wood products. They must then comply with at least three of the five CPA requirements.

The five criteria are:

- Carbon Footprint
- Local Resources
- Recycled Content
- Sustainability and Responsible Wood Sourcing.





# FSC® - Forest Stewardship Council

The Forest Stewardship Council® (FSC®) is a non-governmental, non-profit organization. It was created in 1993 by a representative group of organizations from 25 countries.

It's mission is to promote the responsible management of forests. Their main concept is the chain of custody that follows the product from forest to consumer.

- FSC fiber + FSC Manufacturer + FSC Distributor + FSC Kitchen or Office Furniture Manufacturer = FSC Product
- Every supplier needs to get his own FSC number.

# FSC<sup>®</sup> - Forest Stewardship Council

## FSC<sup>®</sup> 100%

- 100% pure FSC<sup>®</sup> fibres

## FSC<sup>®</sup> Mix Sources

- FSC<sup>®</sup> 100% + FSC Controlled Wood Fibres (CW)
- Mix Credit System
  - 1 credit = 1 ton
  - 0.605 tons = 1M<sup>3</sup>  
Ex. 1 Truck = 50M<sup>3</sup> → 30.25 tons  
= 30 credits

**SFI**

**SUSTAINABLE FORESTRY INITIATIVE**

# LEED® - Leadership in Energy and Environmental Design

## OBJECTIVES and APPLICATIONS

- LEED aims at sustainable building evaluation for new constructions, important renovations, interior space planning for commercial locations...
- LEED is a privileged way of reducing environmental impact during construction or renovation.
- LEED applies to commercial, industrial, institutional and to multi-unit residential buildings.



# LEED® - Leadership in Energy and Environmental Design



# LEED® 2009 - Leadership in Energy and Environmental Design

To obtain LEED certification, a building must meet six major evaluation criteria:

- 1 Environmental management of sites
- 2 Effective water management
- 3 Energy and atmosphere
- 4 Materials and resources (up to 5 points) ←
- 5 Interior environment quality (up to 1 point) ←
- 6 Design innovation and processes

Panel Products can contribute in 2 categories

# LEED® v4 - Leadership in Energy and Environmental Design

To obtain LEED certification,  
a building must meet six major evaluation criteria:

- 1 Environmental management of sites
- 2 Effective water management
- 3 Energy and atmosphere
- 4 Materials and resources (up to 3 points) ←
- 5 Interior environment quality (up to 1 point) ←
- 6 Design innovation and processes

Panel Products can contribute in 2 categories

# SUPPLY MANAGEMENT



"I don't have time to see any crazy salesman; I have a battle to fight."



# THANK YOU

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Further questions or information .....

Please visit the Uniboard Booth

# #1047

