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### WHO IS BENCHMARK?

- ISO/IEC 17065 Product Certification (IAS PCA-109)
- ISO/IEC 17025 Laboratory Test (IAS TL-280)
- ISO/IEC 17020 Third-Party Inspection (IAS AA-660)
- JAS Registered Overseas Certifying Body (ROCB)
- EPA & CARB-approved Third-Party Certifier (TPC-2)
- Accredited CANFER Third-Party Certifier
- NALFA-Recognized Test Laboratory
- Amazon SPN Preferred Provider for Compliance Services
- USGBC & CalEPA-Recognized Certification Agency: VOC Green
- KCMA-Recognized Composite Wood Sustainability Certification Program (CWSS)













### **AGENDA:**

- 1. TSCA Title VI Regulations How did we get here?
- 2. What is the difference between composite wood panels and laminated products?
- 3. What does TSCA Title VI require of laminated product producers?
- 4. What is the Laminated Products Exemption and how do I qualify?
- 5. Does this requirement apply to my Supply Chain?
- 6. If I don't qualify for the Laminated Products Exemption, what are my options?
- 7. How do I get certified if need be?





# What North American regulations/standards govern formaldehyde?

Location	Standard/Regulation	Acronym	Status	Agency	Jurisdiction
USA	CARB ATCM 93120	"CARB"	Mandatory	California Air Resources Board (CARB)	State of California
USA	EPA TSCA Title VI (40 CFR Part 770)	"EPA" or "TSCA"	Mandatory	U.S. Environmental Protection Agency (EPA)	All U.S. States and Territories
Canada	Canada Formaldehyde Emissions of Composite Wood Products Regulation (CANFER)	"CANFER"	Mandatory	Health Canada & Canada Minister of Environment (Minister)	All Canadian Provinces and Territories
Canada	Formaldehyde Emissions Standards of Composite Wood Products (CAN/CSA 0160-16)	"CAN/CSA"	Voluntary	Standards Council of Canada (SCC)	Superseded by CANFER



#### **EPA TSCA TITLE VI COMPLIANCE TIMELINE:**

Final EPA TSCA
 Title VI (40 CFR
 770) rule
 published in U.S.
 Federal Register

**DECEMBER 12, 2016** 

 Rule effective date delayed again to May 22, 2017

MARCH 20, 2017

 Direct Final Rule takes effect to permit early labeling of TSCA Title VIcertified panels and compliant finished goods

**AUGUST 25, 2017** 

 Sierra Club files lawsuit challenging EPA's authority to extend the compliance deadlines

OCTOBER 31, 2017

 Composite wood panels and finished goods must be certified and labeled as conforming to either TSCA Title VI <u>OR</u> CARB Phase 2 by a TPC that is approved by CARB and recognized by EPA

**JUNE 1, 2018** 

 Final CANFER Regulation published in Canada Gazette Part II

CANFER
JULY 17, 2021

 Laminated Product Producers must be EPA-certified unless exempt on the basis of the use of NAF or phenol resins

EPA TSCA Title VI MARCH 22, 2024 WE ARE HERE

### TIME

#### **JANUARY 26, 2017**

 Rule effective date delayed by Executive Order to March 21, 2017

#### MAY 22, 2017

- EPA TSCA Title VI (40 CFR 770) takes effect
- Accreditation Bodies (AB) can apply for EPA recognition
- CARB TPC's can apply for EPA recognition (reciprocity)

#### **SEPTEMBER 25, 2017**

 Final Rule published to extend manufacturer/importer compliance deadline to December 12, 2018; other compliance deadlines also extended

#### **MARCH 13, 2018**

 U.S. District Court for Northern District of California issues order to resolve Sierra Club litigation; final compliance deadlines established by joint stipulation agreement

#### MARCH 22, 2019

- Products must be certified and labeled as conforming to TSCA Title VI; CARB Phase 2 no longer accepted outside California
- Import certification rule takes effect
- Transition period for CARB TPC's ends; TPC's must comply with additional accreditation requirements to remain EPA-recognized

### CANFER

#### **JANUARY 7, 2023**

 Composite wood panels and finished goods must be certified and labeled as conforming to CANFER

### CANFER JANUARY 7, 2028

 Laminated Product Producers must be CANFER-certified unless exempt on the basis of the use of NAF or phenol resins









## What is a Composite Wood Panel?

- A thin (usually less than 2" thick), <u>flat</u>, (usually rectangular) board made from pieces, chips, particles, veneers, or fibers of wood bonded together with a resin.
- Dimensions are irrelevant; panels can be any size or shape.
- For CARB, EPA, & CANFER purposes, composite wood panels include:
  - Medium Density Fiberboard (MDF)
  - ➤ Thin-Medium Density Fiberboard (Thin-MDF) MDF with a total thickness ≤8mm
  - Particleboard (PB)
  - ➤ Hardwood and Decorative Plywood Veneer Core (HWPW-VC)
  - Hardwood and Decorative Plywood Composite Core (HWPW-CC)











## It is **STILL** a Composite Wood Panel when:

- Embossed or irregular pattern is applied to the panel surface by the original panel producer during pressing.
- A panel is cut into smaller pieces, without additional value-added fabrication to change the panel into a different type of product.
- Adding edge banding (without additional value-added processing such as finishing or painting)



MANUFACTURER REQUIREMENT		TSCA Title VI	CANFER		
Formaldehyde Emission Limits:					
Hardwood Plywood – Veneer Core (HWPW-VC)	✓	≤0.05ppm	<b>√</b>	≤0.05ppm	
Hardwood Plywood – Composite Core (HWPW-CC)	✓	≤0.05ppm	<b>√</b>	≤0.05ppm	
Particleboard (PB)	<b>√</b>	≤0.09ppm	<b>√</b>	≤0.09ppm	
Medium Density Fiberboard (MDF) >8mm thick	<b>√</b>	≤0.11ppm	<b>√</b>	≤0.11ppm	
Thin-Medium Density Fiberboard (Thin-MDF) ≤8mm thick	<b>√</b>	≤0.13ppm	<b>√</b>	≤0.13ppm	

## What is a Laminated Product?

### (The practical) EPA TSCA Title VI Definition:

- 1. A composite wood product that is;
- 2. produced by a **Fabricator** of component parts or finished goods;
- 3. in which a **wood or woody-grass** (e.g., bamboo) veneer;
- 4. is adhered to a **TSCA Title VI-certified** HWPW, MDF, or PB core or platform;
- 5. using a **formaldehyde-containing resin**;
- and that is <u>converted to a component part or finished</u> <u>good</u> through subsequent value-added processing;
- **7. generally, in the same facility** that completed the veneer lamination step.



Paper on MDF



Melamine on particleboard



Wood veneer on MDF



Bamboo veneer on HWPW



### **Benchmark** PART 2: Panels vs. Laminated Products – What's the Difference?

### What is a Laminated Product?

- Veneers can be added to <u>either one or both sides</u> of the underlying HWPW, MDF, or PB platform.
- Subject to 0.05ppm emission standard (subset of HWPW).
- Product does not have to be flat.
- Must be converted to component part/finished good in **same production facility** that laminated the veneers.





Veneer-raised panels on particleboard core (cabinet doors)



Wood veneer-wrapped MDF core crown molding



Wood veneer-wrapped MDF core crown molding



MDF base cap molding wrapped with bubinga veneer



MANUFACTURER REQUIREMENT	TSCA Title VI			CANFER
Formaldehyde Emission Limits:				
Hardwood Plywood – Veneer Core (HWPW-VC)	<b>√</b>	≤0.05ppm	✓	≤0.05ppm
Hardwood Plywood – Composite Core (HWPW-CC)	<b>√</b>	≤0.05ppm	<b>√</b>	≤0.05ppm
Particleboard (PB)	<b>√</b>	≤0.09ppm	<b>√</b>	≤0.09ppm
Medium Density Fiberboard (MDF) >8mm thick	<b>√</b>	≤0.11ppm	<b>√</b>	≤0.11ppm
Thin-Medium Density Fiberboard (Thin-MDF) ≤8mm thick	<b>✓</b>	≤0.13ppm	✓	≤0.13ppm
Laminated Products (wood/woody grass veneer adhered to a certified platform)	<b>✓</b>	<ul> <li>≤0.05ppm</li> <li>underlying platform must be TSCA Title VI-certified</li> <li>Veneer-laminated product must be certified by Mar. 22, 2024 unless using NAF or phenolic resin</li> </ul>	✓	<ul> <li>≤0.05ppm (EPA)</li> <li>underlying platform must be either TSCA Title VI or CANFER-certified</li> </ul>
Component Parts/Finished Goods	×	Not applicable; emission standards apply only to the HWPW, MDF, PB, or laminated product components contained in the finished good	×	Not applicable; emission standards apply only to the HWPW, MDF, PB, or laminated product components contained in the finished good



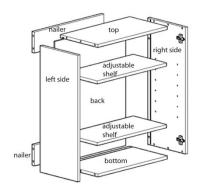
## Other terminology:

### Component Part:

- An object, other than a panel, that contains HWPW, MDF, PB, or a Laminated Product and is used in the construction or assembly of finished goods
- Component parts that are packaged and sold directly to consumers are considered finished goods

### Finished Good:

- Any product, other than a panel, that contains HWPW, MDF, PB, or a Laminated Product and that is not a component part used in the assembly of a finished good.
- Examples: Engineered wood flooring, laminate flooring, cabinetry, furniture, etc.







## **EPA Clarification on Subcontract Laminators:**

- EPA's definition of the term "laminated product" limits applicability to products made by fabricators of the finished goods in which the laminated products are incorporated, or to products made by fabricators who use the products in the further construction or assembly of component parts. Consistent with EPA's definition of the term "Panel" provided in 40 CFR Part 770.3, EPA does not consider the simple act of embossing an irregular surface or drilling/cutting a panel into smaller pieces, without additional fabrication, to be "construction or assembly" of either component parts or finished goods. Therefore, entities that adhere wood or bamboo veneers to both sides of a TSCA-Title VI HWPW, MDF, or PB panels or smaller cut pieces thereof, whether or not on a subcontract basis, and then deliver these veneer-laminated pieces or panels to a fabricator are hardwood plywood panel producers. The TSCA Title VI third-party certification or NAF/ULEF exemption requirements for panel producers thus apply to these entities.
- To be considered a Laminated Product Producer under TSCA Title VI an entity which adheres wood or bamboo veneers to HWPW, MDF or PB panels must incorporate those panels into finished goods or other component parts which are then incorporated into finished goods. Simply laminating the veneer to HWPW, MDF or PB panels is not sufficient to be considered a Laminated Product Producer under Title VI.



## **EPA Clarification on Manufacturers and Fabricators**

#### **Fabricator**



Facility A
purchases
TSCA/CARB
certified MDF
panels



Facility A cuts
MDF into door
fronts or
smaller pieces
and sends to a
Subcontractor



### Manufacturer



Facility B laminates veneers onto both sides of the door front or smaller pieces. No other substantial transformation occurs.



### **Fabricator**



Facility A receives laminated panels and combines with other component parts to produce a finished good





## What is the EPA "manufactured-by" date for Laminated Products?

### The "manufactured-by" date for laminated product producers is 22 March 2024

- Laminated product producers must achieve TSCA Title VI certification by 22 March 2024 <u>UNLESS</u>:
  - Purchase and use only No-Added Formaldehyde (NAF) or Phenolic Formaldehyde (PF) <u>resins</u> to adhere the wood veneer(s) to the underlying HWPW, MDF, or PB panel
  - Comply with the additional laminated product producer record-keeping requirements specified in 770.40(c)

#### **IMPORTANT:**

- 1. The purchase and use of TSCA-certified <u>or NAF/ULEF</u> exempt HWPW, MDF, or PB panels is required. <u>This requirement applies even after third party certification is achieved!</u>
- 2. A producer who manufactures TSCA-certified HWPW, MDF, or PB panels internally, then laminates additional wood or bamboo veneers to these certified panels in a second pressing step using a formaldehyde based resin must apply to their TPC to expand their scope of certification to include these laminated products!



## What is the EPA "manufactured-by" date for Laminated Products?

The "manufactured-by" date for laminated product producers is 22 March 2024

#### **IMPORTANT:**

- 1. For imported products, the "manufacture-by" is the date of importation.
- 2. Producers, importers, buyers, etc., should look at shipping lead times to ensure that imported products meet requirements before importing into the U.S. on 22 March 2024.
- 3. Products that are <u>not certified</u>, <u>cannot be imported after the 22 March 2024 effective date</u>, unless the laminated products qualify for the NAF/Phenol exemption.
- 4. Inventory that is already in the United States prior to 22 March 2024 may continue to be sold. However, documentation requirements apply.



# In general, which EPA requirements apply?

Requirement	Manufacturer/ Panel Producer	Laminated Product Producer See Note 1	Fabricator	Importer	Distributor	Retailer
Emission Standards:	<b>✓</b>	<b>✓</b>	✓	✓	<b>✓</b>	✓
Written Quality System:	✓	✓	×	×	×	×
Third Party Certification: (or Qualified NAF/ULEF Exemption)	✓	FPA: Compliance by 3/22/2024	×	×	×	×
Product Testing:	✓	✓	×	×	×	×
Labeling:	✓	✓	✓	<u>!!</u>	<u>!!</u>	<u>!!</u>
Reasonable Prudent Precautions:	Required if purchasing HWPW, MDF, or PB for panel production	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Import Declaration: (EPA TSCA Title VI Only)	✓	✓	<b>√</b>	✓	<b>√</b>	<b>√</b>
Invoice/Bill of Lading:	✓	✓	✓	✓	✓	×
Record Keeping:	✓	✓	✓	✓	✓	✓
EPA/CARB Facility Inspections:	✓	✓	✓	✓	✓	<b>√</b>

NOTE 1: Laminated Product Producers must comply with Fabricator requirements until the 3/22/2024 laminated product certification deadlines.





## What is the Laminated Products Exemption and how do I qualify?

- Laminated products are exempt from the March 2024 certification deadline if the Fabricator:
  - 1. purchases/uses TSCA Title VI-certified or NAF/ULEF-exempt HWPW, MDF, or PB panels.
  - 2. purchases/uses either No-Added Formaldehyde (NAF) or Phenolic Formaldehyde (PF) resins for the veneer lamination step.
  - 3. conforms to the additional record-keeping requirements for exempt laminated product producers.
  - 4. labels their products in accordance with TSCA Title VI regulations.



## What types of resins qualify for the Laminated Products Exemption?

- Types of No-Added Formaldehyde (NAF) resins:
  - 1. Polyvinyl acetate (PVA)
  - 2. Ethylene vinyl acetate (EVA)
  - 3. Polyurethane Reactive Hotmelt (PUR)
  - 4. Methylene Diphenyl Diisocyanate (MDI)
  - 5. Emulsion Polymer Isocyanate (EPI)
  - 6. Epoxy resins
  - 7. Soy-based resins
  - 8. Others

- Types of Phenolic Formaldehyde resins:
  - Novolac require a cross-linking additive to harden
  - 2. Resol do not require a hardener



## What additional records do I need to keep to qualify for the LPE?

- Records demonstrating eligibility for exemption:
  - Resin trade name, resin manufacturer contact information, resin supplier information (if different from manufacturer) and resin purchase records
  - 2. Panel producer contact information and panel purchase records;
    - Reasonable prudent precautions
    - Purchase orders/purchase contracts
    - Invoices/bills of lading
  - 3. For panels produced internally, records demonstrating the panels have been certified or have been granted NAF/ULEF exemption by an EPA-approved TPC;
  - 4. For resins produced in-house, records of the production of phenolic or NAF resins



## What are the labeling requirements for Exempt Laminated Products?

- Required Label Content:
  - 1. Fabricator name

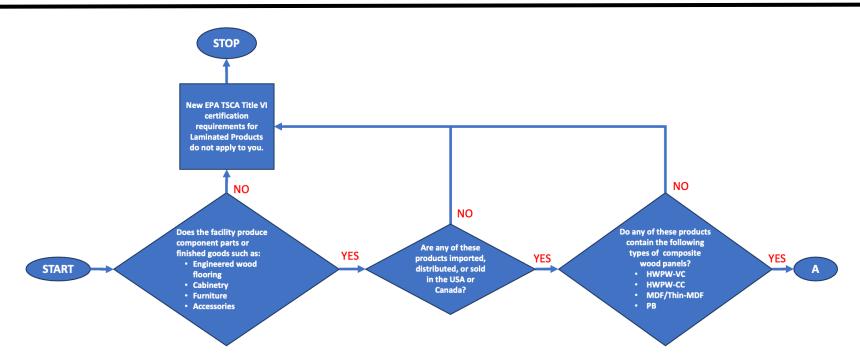
**NOTE:** the name of a downstream importer/distributor/retailer can be substituted for the Fabricator name if there is written agreement to do so. For example: "Distributed by ABC Distributors".

- 2. Statement of TSCA Title VI Compliance
- 3. Production Date in mm/yyyy format
- Optional Label Content:
  - 1. If the underlying panels are NAF exempt, then reference to NAF can be made on the product labels if using only NAF resins for the veneer-lamination step.
  - 2. If the underlying panels are ULEF-reduced or ULEF-exempt, then reference to ULEF can be made on the product labels if **EITHER** NAF or Phenolic resins are used for the veneer-lamination step.
  - 3. Reference to NAF or ULEF on compliance statements is not allowed if using TPC-certified panels.



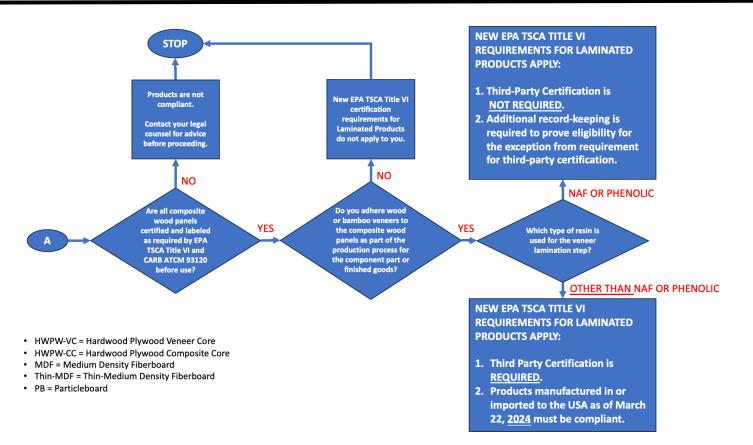






- HWPW-VC = Hardwood Plywood Veneer Core
- HWPW-CC = Hardwood Plywood Composite Core
- MDF = Medium Density Fiberboard
- Thin-MDF = Thin-Medium Density Fiberboard
- PB = Particleboard









Level	Level Complian		Pros	Cons
Bronze		Third Party Certification	<ul> <li>Easiest/fastest to achieve (2-3 months)</li> <li>Flexible/easy to modify if business conditions change</li> <li>Least stringent emissions criteria compared to silver or gold levels</li> </ul>	<ul> <li>Weekly formaldehyde QC testing</li> <li>Quarterly audits</li> <li>Monthly Reporting to TPC</li> <li>Highest certification cost</li> <li>Highest administrative burden</li> </ul>
Silver	5V-3-2	ULEF-Reduced Certification	<ul> <li>Reduced administrative burden</li> <li>Moderate certification costs</li> <li>Semi-annual audits (every 6 months)</li> <li>Semi-annual TPC verification testing</li> <li>Ability to reference "ULEF" on product labels.</li> </ul>	<ul> <li>Longer timeframe to achieve (6-8 months)</li> <li>Weekly formaldehyde QC testing</li> <li>Monthly Reporting to TPC</li> <li>Moderately flexible</li> </ul>
Gold		ULEF-Exempt Certification	<ul> <li>Minimal administrative burden</li> <li>Lowest certification cost</li> <li>Biennial audits (every 2 years)</li> <li>Biennial TPC verification testing</li> <li>No weekly QC testing</li> <li>No monthly reporting</li> <li>Ability to reference "ULEF" on product labels.</li> </ul>	<ul> <li>Longer timeframe to achieve (6-8 months)</li> <li>Most stringent emissions criteria</li> <li>Least flexible/changes may require additional qualification activities</li> </ul>



Level	Requirement		Description
Bronze W	Completed application including name, address, other contact info	<b>✓</b>	Submit to TPC
BROVZ	Approved Formaldehyde Emissions Quality Control Manual	<b>✓</b>	Required for all manufacturers including NAF/ULEF Exempt
	Types of Products to be Certified and Resin Systems Used	<b>\</b>	Must specify each individual panel construction and the resin systems to be certified
	Initial Qualification Tests per ASTM E1333 or ASTM D6007	<b>✓</b>	Minimum 5 tests per product group (Laminated VC, Laminated CC and/or others)
TPC	QC Test Method Correlation	<b>✓</b>	QC Test Method vs. either ASTM E1333 or ASTM D6007 (required only if conducting QC testing on-site or if using an unaccredited contract laboratory)
Certification	Test results per Manufacturer's QC Test Method	<b>√</b>	<ul> <li>Minimum 5 manufacturer QC tests per product group</li> <li>Can be done in conjunction with test method correlation</li> </ul>
	Results of initial site audit/inspection	<b>✓</b>	Per EPA requirements



Level	Requirement		Description
Silver W	Completed application including name, address, other contact info	<b>√</b>	PRE-REQUISITE: THIRD PARTY CERTIFICATION (BRONZE LEVEL)
STIDY SE	Types of Products to be Certified and Resin Systems Used	<b>✓</b>	Must specify each panel construction to be certified
	Chemical Formulation of the candidate resin system(s)	×	Not required per TSCA Title VI     Only required if seeking exemption for panel production per CARB ATCM 93120; not applicable to laminated products
	Name of Third-Party Certifier	<b>√</b>	Must be reported to EPA at the time the ULEF-reduced testing approval is granted by TPC
ULEF-	Initial Qualification Tests per ASTM	<b>√</b>	Minimum 2 qualification tests per product group
Reduced	E1333/ASTM D6007		<ul> <li>No test result greater than:</li> <li>HWPW: 0.05 ppm max</li> </ul>
Certification			> PB: 0.08 ppm max
			<b>≻ MDF:</b> 0.09 ppm max
			➤ Thin-MDF: 0.11 ppm max



Level	Requirement		Description
Silver	Six (6) months routine QC test data	<b>√</b>	<ul> <li>Minimum of 26 quality control tests required</li> <li>No test result greater than:         <ul> <li>HWPW: 0.05 ppm max</li> <li>PB: 0.08 ppm max (90% ≤0.05 ppm)</li> <li>MDF: 0.09 ppm max (90% ≤0.06 ppm)</li> <li>Thin-MDF: 0.11 ppm max (90% ≤0.08 ppm)</li> </ul> </li> </ul>
ULEF- Reduced Certification	CARB Executive Order for ULEF- Reduced Approval	×	Only required if seeking exemption for panel production per CARB ATCM 93120; not applicable to laminated products



Level	Requirement		Description
Gold W	Completed application including name, address, other contact info	<b>✓</b>	PRE-REQUISITE: THIRD PARTY CERTIFICATION (BRONZE LEVEL)
6010	Types of Products to be Certified and Resin Systems Used	<b>✓</b>	Must specify each panel construction to be certified
	Chemical Formulation of the candidate resin system(s)	×	<ul> <li>Not required per TSCA Title VI</li> <li>Only required if seeking exemption for panel production per CARB ATCM 93120; not applicable to laminated products</li> </ul>
ULEF-Exempt	Name of Third-Party Certifier	<b>✓</b>	Must be reported to EPA at the time the ULEF-reduced testing approval is granted by TPC
Certification	Initial Qualification Tests per ASTM E1333/ASTM D6007	<b>✓</b>	<ul> <li>Minimum 2 qualification tests per product group</li> <li>All test results must be ≤0.04 ppm regardless of product type</li> </ul>



Level	Requirement		Description
Gold	Six (6) months routine QC test data	<b>✓</b>	<ul> <li>Minimum of 26 quality control tests required</li> <li>No test result greater than:</li> <li>➤ HWPW: 0.05 ppm max (90% must be ≤0.04 ppm)</li> <li>➤ PB: 0.06 ppm max (90% must be ≤0.04 ppm)</li> <li>➤ MDF: 0.06 ppm max (90% must be ≤0.04 ppm)</li> <li>➤ Thin-MDF: 0.06 ppm max (90% must be ≤0.04 ppm)</li> </ul>
ULEF-Exempt Certification	CARB Executive Order for Exempt Approval	×	Only required if seeking exemption for panel production per CARB ATCM 93120; not applicable to laminated products





### How do I Get Certified if Need Be?

- 1. Don't wait to get started TPC and test chamber availability is limited worldwide
- 2. Contact an EPA-approved TPC to discuss your product types and resin systems to verify eligibility for the Laminated Products Exemption or to confirm the best path to certification.
- 3. Engage your resin supplier for assistance
- 4. Define your resin production/mixing recipes and procedures
- 5. Establish minimum/maximum resin application rates for each product type (g/m² or lbs/ft²)
- 6. Define minimum/maximum press operating conditions:
  - a) Cold Press:
    - Press Cycle Time
    - Pressure

- b) Hot Press:
  - Press Cycle Time
  - Pressure
  - Temperature



### How do I Get Certified if Need Be?

- 7. Define/implement product changeover procedures as needed:
  - a) cleaning procedures for resin mixers/applicators
  - b) Resin application rate verification
  - c) Press setup/verification
- 8. Send preliminary samples to the TPC to verify emissions are likely to meet TSCA Title VI standards
- 9. Prepare your quality control manual and submit to TPC for approval
- 10. Setup quality control test laboratory or designate a qualified test laboratory to conduct quality control testing on your behalf



## How do I Get Certified if Need Be?

- 11. Get critical quality control instrumentation calibrated by a qualified provider:
  - a) Press monitoring equipment (manometers and temperature gauges)
  - b) Resin production equipment (viscometers, calorimeters, scales used to measure resining ingredients, etc.)
  - c) Scales used to verify resin application rates
  - d) Laboratory test equipment (if performance formaldehyde QC testing internally)
- 12. Prepare product labels and bills of lading/invoices with required compliance information
- 12. Work with TPC to complete initial site audit and qualification testing
- 13. Work with TPC to obtain QC test method correlation (if conducting QC testing internally or using an unaccredited test laboratory)
- 14. Corrective action, if needed.
- 15. CERTIFICATION GRANTED!

