

C E R T I F I C A T E

ULEF-EXEMPT TPC-10/ULEF-E/2117009-PW-2024-01

Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) (TPC-10)
Zellescher Weg 24, D-01217 Dresden, Germany

as US CARB and EPA-recognized TPC, has received a completed application for ULEF exemption submitted by below-named panel producer of composite wood products in accordance with 40 CFR §770.2(e) and §770.18(a) and CARB ATCM 93120.3(d) and

HEREBY AFFIRMS THAT

Latvijas Finieris AS, mill Lignumus

Finiera iela 6, LV-1016 Riga, Latvia

PRODUCT SCOPE

**RIGA[®] birch HWPW-VC, lignin-phenol-formaldehyde (LPF), unfaced
in the nominal thickness range of 4 - ≤ 50 mm (0.17 to 2.0 inches)**

HAS FULFILLED THE REQUIREMENTS OF

EPA TSCA Title VI - 40 CFR 770.18(d) Ultra low-emitting formaldehyde (ULEF) resins
exemption from certification and testing

CARB ATCM 93120.3(d) - Special Provision for Manufacturers of HWPW, PB and MDF with
Ultra-Low-Emitting Formaldehyde Resins

The validity of this certificate is subject to the requirements defined in 40 CFR §770.18(h)(i).

Issue date: February 29, 2024

Date last revised: February 29, 2024

Expiration Date of ULEF Exemption: February 28, 2026

This Certificate is based on EPH's ULEF Approval No. AP-ULEF-E/2117009-PW-2024-01

29 February 2024

Date



R.P.
Dr.-Ing. Rico Emmeler
Certification Body

ATTESTATION OF CONFORMITY

TSCA-CARB-2024-02-29-01

In accordance with the provisions of Third Party Certification required within US EPA TSCA Title VI – 40 CFR Part 770 – Formaldehyde Emission Standards for Composite Wood Products and the Final Regulation Order of “Airborne Toxic Control Measure (ATCM) to Reduce Formaldehyde Emission from Composite Wood Products” - § 93120 - 93120.12, title 17, California Code of Regulations – by the California Air Resources Board (CARB),

Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH)

Zellescher Weg 24, D-01217 Dresden, Germany

as CARB-approved and EPA- approved **TPC-10** has

- (A) verified that the panel producer’s quality assurance and quality control procedures are complying with the requirements
- (B) verified the panel producer’s quality control test results compared with test results from ASTM E1333 or ASTM D6007, by having the TPC laboratory conduct quarterly tests
- (C) established quality control limit(s) (QCLs) for each product type
- (D) established a process that will be used to determine if products are exceeding the applicable QCL
- (E) provided the CARB or EPA TPC number to the panel producer for labeling and recordkeeping; and
- (F) inspected the panel producer, its products and records at least quarterly

according to Third Party Supervision and Certification Contract BFU-08-10-13-01
and certifies that the product

RIGA[®] birch HWPW-VC, lignin-phenol-formaldehyde (LPF), unfaced in the nominal thickness range of 4 - ≤ 50 mm (0.17 to 2.0 inches)

manufactured by

Latvijas Finieris AS, mill Lignums

at its manufacturing site

Finiera iela 6

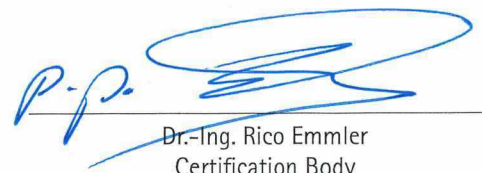
LV-1016 Riga, Latvia

complies with the applicable emission standards set forth
in TSCA Title VI – § 770.10 and CARB Phase 2 according to table 1 of § 93120.2.

This evaluation is based on Supervision Report No. 2117009/2024/01 dated 29 February 2024. This attestation confirms, as a proof of continued TPC certification, the validity of the Initial Certificate No. TSCA-CARB-2020-10-16-01 and remains effective for the agreed surveillance period unless the requirements and conditions, under which this attestation has been issued, have changed considerably.

29 February 2024

Date



Dr.-Ing. Rico Emmeler
Certification Body

ATTESTATION OF CONFORMITY

EPA TSCA Title VI – Attestation ULEF – 2022-12-20-01

Expiry date: 19 December 2024

By order of the US Environmental Protection Agency (EPA), according to the Toxic Substances Control Act Title VI, under section 40 CFR Part 770 - Formaldehyde Emission Standards for Composite Wood Products, relating to EPA approval of third party certifiers under Subpart B - EPA TSCA Title VI, §770.7

Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH)
Zellescher Weg 24, D-01217 Dresden, Germany

as EPA TSCA Title VI recognized **TPC-10**

has assessed, that the below mentioned product fulfils the requirements according to EPA TSCA Title VI, §770.18(d) for a two-year exemption from testing requirements in §770.20 and certification requirements in §§ 770.15 and 770.40(b) for composite wood products as for the product a valid exemption from CARB is available, which is also valid under TSCA Title VI according to §770.18(e).

**RIGA® birch plywood ULEF HWPW-VC, phenol-formaldehyde (PF), unfaced
in the nominal thickness range of 4 mm - ≤ 50 mm (0.16 to 2.0 inches)**

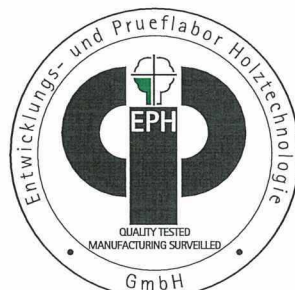
manufactured by
Latvijas Finieris AS, plant Lignums

at its manufacturing site
**Finiera iela 6
LV-1016 Riga, Latvia**

A supervision contract with no. BFU-08-10-13-01 /2117009 between EPH and the manufacturer is available. The attestation confirms the validity of CARB Executive Order N-22-124, unless the requirements and conditions under which this attestation has been issued will have changed considerably acc. to TSCA Title VI – §770.18(h)(i) and as long as the requirements of CARB remain as stringent as EPA's requirements. Latvijas Finieris, plant Lignums's CARB Executive Order N-22-124 was uploaded in the EPA CDX database with assigned Unique Form ID TPC-RTA-37672.

20 December 2022

Date



Dr.-Ing. Rico Emmler
Certification Body

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER N-22-124

Relating to CARB Approval for an Exemption from Third-Party Certification
for Composite Wood Product Manufacturers that use
Ultra-low-emitting Formaldehyde Resins under
section 93120.3, title 17, California Code of Regulations

Latvijas Finieris AS, mill Lignums

Whereas, the California Air Resources Board (CARB) has adopted the "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products" (ATCM; title 17, California Code of Regulations, sections 93120-93120.12), which establishes formaldehyde emission standards for composite products;

Whereas, section 93120.1(a)(42) of the ATCM defines "ultra-low-emitting formaldehyde" (ULEF) based resins to mean resins formulated such that average formaldehyde emissions are consistently below the Phase 2 emission standards in section 93120.2, for making hardwood plywood (HWPW), particleboard (PB), medium density fiberboard (MDF), or thin medium density fiberboard (tMDF);

Whereas, section 93120.3(d) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use ULEF-based resins to apply for written approval from the Executive Officer for an exemption from the requirements of section 93120.3(b) of the ATCM;

Whereas, section 93120.3(d) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use ULEF-based resins to submit an application to the Executive Officer for an exemption from the requirements of section 93120.3(b) of the ATCM; the application shall include: (A) a statement indicating which product types will be manufactured using ULEF-based resins for sale in California; (B) the chemical formulation of the candidate ULEF-based resins, including base resins, scavenger resins, scavenger additives, catalysts, and other additives as used in manufacturing; (C) the name of their CARB-approved third-party certifier (TPC); and (D) data on the emissions performance of the candidate ULEF-based resins;

Whereas, the data on emissions performance of the candidate ULEF-based resin required in section 93120.3(d) of the ATCM must be obtained by working with a CARB-approved TPC, and must include six months of routine quality control testing data, the correlation of the routine quality control testing data to primary or secondary testing data, and the results of two primary or secondary method tests, as required in Appendix 2 of section 93120.12 of the ATCM;

Whereas, section 93120.3(d)(2) of the ATCM requires that 90 percent of the six months of routine quality control testing data and the results of two primary or secondary method tests must be shown to be no higher than 0.04 parts per million (ppm), and that all data must be shown to be no higher than 0.05 ppm for HWPW and 0.06 ppm for PB, MDF, and tMDF;

Whereas, section 93120.3(d)(5) of the ATCM provides that the Executive Officer shall approve the application and issue an Executive Order if the evidence submitted by the applicant is sufficient to demonstrate that the applicant has met the requirements specified in sections 93120.3(d)(1) and 93120.3(d)(2) of the ATCM;

Whereas, Latvijas Finieris AS, mill Lignums (Latvijas Finieris or the applicant) submitted an original application received on June 13, 2012;

Whereas, the original application from Latvijas Finieris specified the range in product manufacturing parameters, applicable postpress-product treatments, base resin trade name(s) and base resin manufacturer(s)/supplier(s), and other ingredients added to the base resin by the applicant to manufacture ULEF hardwood plywood-veneer core (HWPW-VC) products;

Whereas, CARB was provided base resin/adhesive information specifying the base resin polymer type and minimum and maximum values of all major and any minor ingredients in the base resin on a percent weight of solids basis;

Whereas, the base resins/adhesive supplier, commercial name, and resin type are set forth in Confidential Attachment A;

Whereas, section 93120.3(d) of the ATCM allows ULEF product manufacturers to apply for re-approval by CARB by submitting an updated application;

Whereas, Latvijas Finieris submitted the original and the updated applications for approval to CARB as follows:

Executive Order #	Date Received	Date Signed	Actions
N-12-124	06/13/2012	07/06/2012	Original
N-14-124	07/21/2014	09/12/2014	Renewal
N-16-124	09/23/2016	10/24/2016	Renewal
N-18-124	10/09/2018	10/26/2018	Renewal
N-20-124	10/21/2020	11/23/2020	Renewal

Whereas, Latvijas Finieris submitted an updated application for re-approval to CARB on November 8, 2022;

Whereas, the updated application for renewal from Latvijas Finieris was deemed complete on November 29, 2022;

Whereas, the Executive Officer finds that the completed, updated application demonstrated the ULEF manufacturer's ability to continue to comply with section 93120.3(d) of the ATCM; and

Whereas, the Executive Officer approved Latvijas Finieris' request for re-approval and it is appropriate that Executive Order N-20-124 be superseded by this Executive Order N-22-124.

Now, therefore, it is ordered that Latvijas Finieris is hereby approved as a ULEF manufacturer of HWPW-VC that is exempt from the requirements of section 93120.3(b) and Appendix 2 of section 93120.12 of the ATCM, provided that the following terms and conditions are met for products sold, supplied, offered for sale, or manufactured for sale in California:

1. Latvijas Finieris must use the commercial resins listed and suppliers listed in Section A of Confidential Attachment A of this Executive Order for the manufacture of ULEF HWPW-VC products.
2. As specified in Section B of Confidential Attachment A, Latvijas Finieris is legally responsible for ensuring that the base resin specifications are within the ranges specified in the original application and any subsequent amendments of this Executive Order.
3. The application rate of the base resins used for the manufacture of ULEF HWPW-VC composite wood products by Latvijas Finieris must be within the ranges specified in Section C of Confidential Attachment A of this Executive Order.
4. Other chemical components of the base resins (such as sizing wax and release wax) used for the manufacture of ULEF HWPW-VC products by Latvijas Finieris must be within the ranges specified in Section D of Confidential Attachment A of this Executive Order.
5. The allowable operating parameters for press temperature and press time for the base resins used to manufacture the ULEF HWPW-VC products by Latvijas Finieris must be within the ranges specified in Section E of Confidential Attachment A of this Executive Order.
6. Only the composite wood products with the product names listed in Section F of Confidential Attachment A of this Executive Order are authorized under this Executive Order.

Be it further ordered that this Executive Order N-22-124 supersedes Executive Order N-20-124, which was signed on November 23, 2020.

Be it further ordered that Latvijas Finieris may change the resin system supplier listed in Section A of Confidential Attachment A of this Executive Order if the new resin supplier supplies the same resin type listed in Confidential Attachment A of this Executive Order, at least two primary or secondary method tests are performed on random samples selected by their CARB-approved TPC, and the Chief of the Risk Reduction Branch within the Transportation and Toxics Division is notified before Latvijas Finieris uses the resin for production.

Be it further ordered that Latvijas Finieris must conduct confirmatory testing for a new resin supplier by demonstrating that the results of two primary or secondary method tests for the new resin system supplier are no higher than 0.04 ppm for the ULEF products authorized under this Executive Order.

Be it further ordered that the Executive Officer may review and, for good cause, modify or revoke this Executive Order as provided in section 93120.3(d)(5) of the ATCM. The Executive Officer shall not modify or revoke this Executive Order without affording the applicant the opportunity for a hearing in accordance with the procedures specified in title 17, California Code of Regulations, section 60055.1 et seq.

Be it further ordered that this Executive Order shall have a duration of two years from the date this Executive Order is signed; the applicant may apply for re-approval as provided in section 93120.3(d)(5) of the ATCM.

Be it further ordered that the applicant must maintain records in electronic or hard copy form for two years, for review by CARB upon request, as specified in section 93120.3(g) of the ATCM.

Be it further ordered that the applicant must notify the Executive Officer in writing within 30 days if there is any change in their product manufacturing parameters or base resin manufacturer(s) or supplier(s) that does not comply with any of the requirements, terms or conditions specified in the ATCM or this Executive Order.

Executed at Sacramento, California this 19th day of December 2022.



Robert Krieger, Chief
Risk Reduction Branch
Transportation and Toxics Division

ATTESTATION OF CONFORMITY

EPA TSCA Title VI – Attestation ULEF – 2023-05-22-01

Expiry date: 17 May 2025

By order of the US Environmental Protection Agency (EPA), according to the Toxic Substances Control Act Title VI, under section 40 CFR Part 770 - Formaldehyde Emission Standards for Composite Wood Products, relating to EPA approval of third party certifiers under Subpart B - EPA TSCA Title VI, §770.7

Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH)
Zellescher Weg 24, D-01217 Dresden, Germany

as EPA TSCA Title VI recognized **TPC-10**

has assessed, that the below mentioned product fulfils the requirements according to EPA TSCA Title VI, §770.18(d) for a two-year exemption from testing requirements in §770.20 and certification requirements in §§ 770.15 and 770.40(b) for composite wood products as for the product a valid exemption from CARB is available, which is also valid under TSCA Title VI according to §770.18(e).

**Plywood (HWPW-VC), lignin-phenol-formaldehyde (LPF), unfaced
in the nominal thickness range of 4 mm - ≤ 50 mm**

manufactured by
Latvijas Finieris, plant Furniers

at its manufacturing site
**Bauskas iela 59
LV-1004 Riga, Latvia**

A supervision contract with no. WBP-2020-06-01-01 /2120064 between EPH and the manufacturer is available. The attestation confirms the validity of CARB Executive Order N-23-505, unless the requirements and conditions under which this attestation has been issued will have changed considerably acc. to TSCA Title VI – §770.18(h)(i) and as long as the requirements of CARB remain as stringent as EPA's requirements. Latvijas Finieris, plant Furniers's CARB Executive Order N-23-505 was uploaded in the EPA CDX database with assigned Unique Form ID TPC-RTA-37672.

22 May 2023

Date



Dr.-Ing. Rico Emmler
Certification Body

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER N-23-505

Relating to CARB Approval for an Exemption from Third-Party Certification
for Composite Wood Product Manufacturers that use
Ultra-low-emitting Formaldehyde Resins under
section 93120.3, title 17, California Code of Regulations

Latvijas Finieris AS, mill Furniers

Whereas, the California Air Resources Board (CARB) has adopted the "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products" (ATCM; title 17, California Code of Regulations, sections 93120-93120.12), which establishes formaldehyde emission standards for composite products;

Whereas, section 93120.1(a)(42) of the ATCM defines "ultra-low-emitting formaldehyde" (ULEF) based resins to mean resins formulated such that average formaldehyde emissions are consistently below the Phase 2 emission standards in section 93120.2, for making hardwood plywood (HWPW), particleboard (PB), medium density fiberboard (MDF), or thin medium density fiberboard (tMDF);

Whereas, section 93120.3(d) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use ULEF-based resins to apply for written approval from the Executive Officer for an exemption from the requirements of section 93120.3(b) of the ATCM;

Whereas, section 93120.3(d) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use ULEF-based resins to submit an application to the Executive Officer for an exemption from the requirements of section 93120.3(b) of the ATCM; the application shall include: (A) a statement indicating which product types will be manufactured using ULEF-based resins for sale in California; (B) the chemical formulation of the candidate ULEF-based resins, including base resins, scavenger resins, scavenger additives, catalysts, and other additives as used in manufacturing; (C) the name of their CARB-approved third-party certifier (TPC); and (D) data on the emissions performance of the candidate ULEF-based resins;

Whereas, the data on emissions performance of the candidate ULEF-based resin required in section 93120.3(d) of the ATCM must be obtained by working with a CARB-approved TPC, and must include six months of routine quality control testing data, the correlation of the routine quality control testing data to primary or secondary testing data, and the results of two primary or secondary method tests, as required in Appendix 2 of section 93120.12 of the ATCM;

Whereas, section 93120.3(d)(2) of the ATCM requires that 90 percent of the six months of routine quality control testing data and the results of two primary or secondary method tests must be shown to be no higher than 0.04 parts per million (ppm), and that all data must be shown to be no higher than 0.05 ppm for HWPW and 0.06 ppm for PB, MDF, and tMDF;

Whereas, section 93120.3(d)(5) of the ATCM provides that the Executive Officer shall approve the application and issue an Executive Order if the evidence submitted by the applicant is sufficient to demonstrate that the applicant has met the requirements specified in sections 93120.3(d)(1) and 93120.3(d)(2) of the ATCM;

Whereas, Latvijas Finieris AS, mill Furniers (Latvijas Finieris or the applicant) submitted an original application that was received on February 5, 2021;

Whereas, the original application from Latvijas Finieris specified the range in product manufacturing parameters, applicable postpress-product treatments, base resin trade name(s) and base resin manufacturer(s)/supplier(s), and other ingredients added to the base resin by the applicant to manufacture ULEF hardwood plywood-veneer core (HWPW-VC) products;

Whereas, CARB was provided base resin/adhesive information specifying the base resin polymer type and minimum and maximum values of all major and any minor ingredients in the base resin on a percent weight of solids basis;

Whereas, the base resins/adhesive supplier, commercial name, and resin type are set forth in Confidential Attachment A;

Whereas, section 93120.3(d) of the ATCM allows ULEF product manufacturers to apply for re-approval by CARB by submitting an updated application;

Whereas, Latvijas Finieris submitted the original and the updated applications for approval to CARB as follows:

Executive Order #	Date Received	Date Signed	Actions
N-21-505	02/05/2021	04/06/2021	Original

Whereas, Latvijas Finieris submitted an updated application for re-approval and amend the production parameters to CARB on March 8, 2023;

Whereas, the updated application for renewal and amendment from Latvijas Finieris was deemed complete on March 13, 2023;

Whereas, the Executive Officer finds that the completed, updated application demonstrated the ULEF manufacturer's ability to continue to comply with section 93120.3(d) of the ATCM; and

Whereas, the Executive Officer approved Latvijas Finieris's request for re-approval and amending production parameters, and it is appropriate that Executive Order N-21-505 be superseded by this Executive Order N-23-505.

Now, therefore, it is ordered that Latvijas Finieris is hereby approved as a ULEF manufacturer of HWPW-VC that is exempt from the requirements of section 93120.3(b) and Appendix 2 of section 93120.12 of the ATCM, provided that the following terms and conditions are met for products sold, supplied, offered for sale, or manufactured for sale in California:

1. Latvijas Finieris must use the commercial resins listed and suppliers listed in Section A of Confidential Attachment A of this Executive Order for the manufacture of ULEF HWPW-VC products.
2. As specified in Section B of Confidential Attachment A, Latvijas Finieris is legally responsible for ensuring that the base resin specifications are within the ranges specified in the original application and any subsequent amendments of this Executive Order.
3. The application rate of the base resins used for the manufacture of ULEF HWPW-VC composite wood products by Latvijas Finieris must be within the ranges specified in Section C of Confidential Attachment A of this Executive Order.
4. Other chemical components of the base resins (such as sizing wax and release wax) used for the manufacture of ULEF HWPW-VC products by Latvijas Finieris must be within the ranges specified in Section D of Confidential Attachment A of this Executive Order.
5. The allowable operating parameters for press temperature and press time for the base resins used to manufacture the ULEF HWPW-VC products by Latvijas Finieris must be within the ranges specified in Section E of Confidential Attachment A of this Executive Order.
6. Only the composite wood products with the product names listed in Section F of Confidential Attachment A of this Executive Order are authorized under this Executive Order.

Be it further ordered that this Executive Order N-23-505 supersedes Executive Order N-21-505, which was signed on April 6, 2021.

Be it further ordered that Latvijas Finieris may change the resin system supplier listed in Section A of Confidential Attachment A of this Executive Order if the new resin supplier supplies the same resin type listed in Confidential Attachment A of this Executive Order, at least two primary or secondary method tests are performed on random samples selected by their CARB-approved TPC, and the Chief of the Risk Reduction Branch within the Transportation and Toxics Division is notified before Latvijas Finieris uses the resin for production.

Be it further ordered that Latvijas Finieris must conduct confirmatory testing for a new resin supplier by demonstrating that the results of two primary or secondary method tests for the new resin system supplier are no higher than 0.04 ppm for the ULEF products authorized under this Executive Order.

Be it further ordered that the Executive Officer may review and, for good cause, modify or revoke this Executive Order as provided in section 93120.3(d)(5) of the ATCM. The Executive Officer shall not modify or revoke this Executive Order without affording the applicant the opportunity for a hearing in accordance with the procedures specified in title 17, California Code of Regulations, section 60055.1 et seq.

Be it further ordered that this Executive Order shall have a duration of two years from the date this Executive Order is signed; the applicant may apply for re-approval as provided in section 93120.3(d)(5) of the ATCM.

Be it further ordered that the applicant must maintain records in electronic or hard copy form for two years, for review by CARB upon request, as specified in section 93120.3(g) of the ATCM.

Be it further ordered that the applicant must notify the Executive Officer in writing within 30 days if there is any change in their product manufacturing parameters or base resin manufacturer(s) or supplier(s) that does not comply with any of the requirements, terms or conditions specified in the ATCM or this Executive Order.

Executed at Sacramento, California on this 17th day of May, 2023.



Robert Krieger, Chief
Risk Reduction Branch
Transportation and Toxics Division

EPA TSCA Title VI - Certificate

ULEF exempt WKI-1244

Expiry date: 20 April 2025

By order of the US Environmental Protection Agency (EPA), according to the executive order 40 CFR Part 770: "Formaldehyde Emission Standards for Composite Wood Products", TSCA Title VI, relating to EPA approval of third party certifiers under Subpart B- EPA TSCA Title VI, §770.7

Fraunhofer Institute for Wood Research

Wilhelm-Klauditz-Institut WKI
 Bienroder Weg 54E, 38108 Braunschweig, Germany

as EPA TSCA Title VI recognized TPC-004

has assessed, that the below mentioned product fulfils the requirements according to EPA TSCA Title VI, §770.18 (d) for a two-year exemption from testing requirements in § 770.20 and certification requirements in §§ 770.15 and 770.40 (b) for composite wood products as for the product a valid exemption from CARB is available, which is also valid under TSCA Title VI according to §770.18 (e).

The product

Birch Plywood Riga Ply EXT

HWPW-VC (plywood), birch, phenol-formaldehyde (PF), unfaced
 in the thickness range: 6.5 mm ≤ 50 mm

is manufactured at:

Latvijas Finieris AS
subsidiary company RSEZ SIA "VEREMS"
Lejas Ancupani
LV-4604 Veremu parish
Latvia

A supervision contract with no. 1244 between Fraunhofer Institute for Wood Research WKI is available. This certificate confirms the validity of CARB Executive Order N-23-345, unless the requirements and conditions under which this certificate has been issued will have changed considerably acc. to TSCA Title VI §770.18(h)(i) and as long as the requirements of CARB remain as stringent as EPA's requirements. CARB Executive Order N-23-345 was uploaded in the EPA CDX database with assigned Unique Form ID TPC-RTA-65554. For more information about EPA's program, please visit EPA at: <https://www.epa.gov/formaldehyde/formaldehyde-emission-standards-composite-wood-products>.



Dipl.-Ing. Harald Schwab
 Head of the Third Party Certifier
 Braunschweig, April 24, 2023



TSCA
 Title VI



Executive Board of the Fraunhofer-Gesellschaft
 Prof. Dr.-Ing. habil. Prof. E. h. Dr.-Ing. E. h. mult.
 Dr. h. c. mult. Reimund Neugebauer, President
 Ass. jur. Elisabeth Ewen
 Dr. rer. pol. Sandra Krey
 Prof. Dr. rer. publ. ass. iur. Alexander Kurz
 Prof. Dr. rer. nat. habil. Axel Müller-Groeling
 Fraunhofer-Gesellschaft zur Förderung
 der angewandten Forschung e. V., Munich
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State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER N-23-345

Relating to CARB Approval for an Exemption from Third-Party Certification
for Composite Wood Product Manufacturers that use
Ultra-low-emitting Formaldehyde Resins under
section 93120.3, title 17, California Code of Regulations

Latvijas Finieris AS, mill Verems

Whereas, the California Air Resources Board (CARB) has adopted the "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products" (ATCM; title 17, California Code of Regulations, sections 93120-93120.12), which establishes formaldehyde emission standards for composite products;

Whereas, section 93120.1(a)(42) of the ATCM defines "ultra-low-emitting formaldehyde" (ULEF) based resins to mean resins formulated such that average formaldehyde emissions are consistently below the Phase 2 emission standards in section 93120.2, for making hardwood plywood (HWPW), particleboard (PB), medium density fiberboard (MDF), or thin medium density fiberboard (tMDF);

Whereas, section 93120.3(d) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use ULEF-based resins to apply for written approval from the Executive Officer for an exemption from the requirements of section 93120.3(b) of the ATCM;

Whereas, section 93120.3(d) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use ULEF-based resins to submit an application to the Executive Officer for an exemption from the requirements of section 93120.3(b) of the ATCM; the application shall include: (A) a statement indicating which product types will be manufactured using ULEF-based resins for sale in California; (B) the chemical formulation of the candidate ULEF-based resins, including base resins, scavenger resins, scavenger additives, catalysts, and other additives as used in manufacturing; (C) the name of their CARB-approved third-party certifier (TPC); and (D) data on the emissions performance of the candidate ULEF-based resins;

Whereas, the data on emissions performance of the candidate ULEF-based resin required in section 93120.3(d) of the ATCM must be obtained by working with a CARB-approved TPC, and must include six months of routine quality control testing data, the correlation of the routine quality control testing data to primary or secondary testing data, and the results of two primary or secondary method tests, as required in Appendix 2 of section 93120.12 of the ATCM;

Whereas, section 93120.3(d)(2) of the ATCM requires that 90 percent of the six months of routine quality control testing data and the results of two primary or secondary method tests must be shown to be no higher than 0.04 parts per million (ppm), and that all data must be shown to be no higher than 0.05 ppm for HWPW and 0.06 ppm for PB, MDF, and tMDF;

Whereas, section 93120.3(d)(5) of the ATCM provides that the Executive Officer shall approve the application and issue an Executive Order if the evidence submitted by the applicant is sufficient to demonstrate that the applicant has met the requirements specified in sections 93120.3(d)(1) and 93120.3(d)(2) of the ATCM;

Whereas, Latvijas Finieris AS, mill Verems or the applicant submitted an original application received on January 31, 2019;

Whereas, the original application from Latvijas Finieris AS, mill Verems specified the range in product manufacturing parameters, applicable post-press product treatments, base resin trade name(s) and base resin manufacturer(s)/supplier(s), and other ingredients added to the base resin by the applicant to manufacture ULEF hardwood plywood-veneer core (HWPW-VC) products;

Whereas, CARB was provided base resin/adhesive information specifying the base resin polymer type and minimum and maximum values of all major and any minor ingredients in the base resin on a percent weight of solids basis;

Whereas, the base resins/adhesive supplier, commercial name, and resin type are set forth in Confidential Attachment A;

Whereas, section 93120.3(d) of the ATCM allows ULEF product manufacturers to apply for re-approval by CARB by submitting an updated application;

Whereas, Latvijas Finieris AS, mill Verems submitted the original and the updated applications for approval to CARB as follows:

Executive Order #	Date Received	Date Signed	Actions
N-19-345	01/31/2019	02/13/2019	Original
N-19-345A	04/27/2020	05/18/2020	Amendment to change the resin powder extender supplier and consumption limits of powder extender
N-21-345	01/11/2021	02/24/2021	Renewal

Whereas, Latvijas Finieris AS, mill Verems submitted an updated application for re-approval to CARB on January 27, 2023;

Whereas, the updated application for renewal from Latvijas Finieris AS, mill Verems was deemed complete on February 14, 2023;

Whereas, the Executive Officer finds that the completed, updated application demonstrated the ULEF manufacturer's ability to continue to comply with section 93120.3(d) of the ATCM; and

Whereas, the Executive Officer approved Latvijas Finieris AS, mill Verems's request for re-approval, and it is appropriate that Executive Order N-21-345 be superseded by this Executive Order N-23-345.

Now, therefore, it is ordered that Latvijas Finieris AS, mill Verems is hereby approved as a ULEF manufacturer of HWPW-VC that is exempt from the requirements of section 93120.3(b) and Appendix 2 of section 93120.12 of the ATCM, provided that the following terms and conditions are met for products sold, supplied, offered for sale, or manufactured for sale in California:

1. Latvijas Finieris AS, mill Verems must use the commercial resins listed and suppliers listed in Section A of Confidential Attachment A of this Executive Order for the manufacture of ULEF HWPW-VC products.
2. As specified in Section B of Confidential Attachment A, Latvijas Finieris AS, mill Verems is legally responsible for ensuring that the base resin specifications are within the ranges specified in the original application and any subsequent amendments of this Executive Order.
3. The application rate of the base resins used for the manufacture of ULEF HWPW-VC composite wood products by Latvijas Finieris AS, mill Verems must be within the ranges specified in Section C of Confidential Attachment A of this Executive Order.
4. Other chemical components of the base resins (such as sizing wax and release wax) used for the manufacture of ULEF HWPW-VC products by Latvijas Finieris AS, mill Verems must be within the ranges specified in Section D of Confidential Attachment A of this Executive Order.
5. The allowable operating parameters for press temperature and press time for the base resins used to manufacture the ULEF HWPW-VC products by Latvijas Finieris AS, mill Verems must be within the ranges specified in Section E of Confidential Attachment A of this Executive Order.
6. Only the composite wood products with the product names listed in Section F of Confidential Attachment A of this Executive Order are authorized under this Executive Order.

Be it further ordered that this Executive Order N-23-345 supersedes Executive Order N-21-345, which was signed on February 24, 2021.

Be it further ordered that Latvijas Finieris AS, mill Verems may change the resin system supplier listed in Section A of Confidential Attachment A of this Executive Order if the new resin supplier supplies the same resin type listed in Confidential Attachment A of this Executive Order, at least two primary or secondary method tests are performed on random samples selected by their CARB-approved TPC, and the Chief of the Risk Reduction Branch within the Transportation and Toxics Division is notified before Latvijas Finieris AS, mill Verems uses the resin for production.

Be it further ordered that Latvijas Finieris AS, mill Verems must conduct confirmatory testing for a new resin supplier by demonstrating that the results of two primary or secondary method tests for the new resin system supplier are no higher than 0.04 ppm for the ULEF products authorized under this Executive Order.

Be it further ordered that the Executive Officer may review and, for good cause, modify or revoke this Executive Order as provided in section 93120.3(d)(5) of the ATCM. The Executive Officer shall not modify or revoke this Executive Order without affording the applicant the opportunity for a hearing in accordance with the procedures specified in title 17, California Code of Regulations, section 60055.1 et seq.

Be it further ordered that this Executive Order shall have a duration of two years from the date this Executive Order is signed; the applicant may apply for re-approval as provided in section 93120.3(d)(5) of the ATCM.

Be it further ordered that the applicant must maintain records in electronic or hard copy form for two years, for review by CARB upon request, as specified in section 93120.3(g) of the ATCM.

Be it further ordered that the applicant must notify the Executive Officer in writing within 30 days if there is any change in their product manufacturing parameters or base resin manufacturer(s) or supplier(s) that does not comply with any of the requirements, terms or conditions specified in the ATCM or this Executive Order.

Executed at Sacramento, California this 20th day of April, 2023.



Robert Krieger, Chief
Risk Reduction Branch
Transportation and Toxics Division



CERTIFICATE

CARB
CALIFORNIA

No. 1443-2022-09-TPC-4

By order of the State of California - Air Resources Board, according to the executive order W-22-004, relating to ARB approval of third party certifiers under Section 93120.4, Title 17, California Code of Regulations



CARB notified TPC 4

Fraunhofer Institute for Wood Research

Wilhelm-Klauditz-Institut WKI
Bienroder Weg 54E, 38108 Braunschweig, Germany

has 1) verified the accuracy of the emission test procedures and facilities used by the composite wood product manufacturer to conduct formaldehyde emission tests, 2) monitored the manufacturers quality assurance programs, 3) has assessed that the below mentioned product fulfils the emission requirement according to table 1 of § 93120.2 of **Phase 2** - see qualification and correlation test reports provided to the manufacturer and 4) provided independent audits and inspections as an ARB approved third party certifier according supervision contract No. 1443 with the manufacturer



Latvijas Finieris AS
subsidiary company RSEZ SIA "VEREMS"
Lejas Ancupani
LV-4604 Veremu parish
Latvia

for the product:

RIGA Ply EXT-LN

plywood, birch, lignin-based phenol-formaldehyde (LPF), unfaced
in the thickness range: 6.5 mm ≤ 50 mm

This certificate, first issued on September 13, 2022, is valid as long as the continuous supervision, quarterly per year will be carried out by WKI. For more information about ARB's program, please visit ARB at: <http://www.arb.ca.gov/toxics/compwood/certifiers.htm>.



Mitglied des Verbandes der
Materialprüfungsanstalten

**Fraunhofer-Gesellschaft zur
Förderung der angewandten
Forschung e.V., München**

Executive Board

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Dr.-Ing. E. h. mult. Dr. h. c. mult.
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Ass. jur. Elisabeth Ewen
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Prof. Dr. rer. nat. habil. Axel Müller-Groeling

Dipl.-Ing. Harald Schwab
Head of the Third Party Certifier
Braunschweig, September 13, 2022





CERTIFICATE

No. 1443-2022-09-TPC-4

According to the Toxic Substances Control Act (TSCA) Title VI § 770.7 (c)(4)(i)(A)-(F)
Formaldehyde Emission Standards for Composite Wood Products

Fraunhofer Institute for Wood Research

Wilhelm-Klauditz-Institut WKI
Bienroder Weg 54E, 38108 Braunschweig, Germany

as third-party certifier approved by Environmental Protection Agency (EPA) has

TSCA
Title VI

- A) verified that the panel producer quality assurance and quality control procedures are complying with the requirements
- B) verified the panel producers quality control test results
- C) established a quality control limit (QCL) for the product type
- D) verified that the producer has established a process that will be used if products exceed the QCL
- E) provided the CARB or EPA TPC number to the panel producer for labelling and recordkeeping and
- F) inspected the panel producers factory production control (FPC), its products and carries out the ongoing control of the FPC quarterly.



A certification contract No. 1443 with the panel producer

Latvijas Finieris AS
subsidiary company RSEZ SIA "VEREMS"
Lejas Ancupani
LV-4604 Veremu parish
Latvia

was concluded for the product

RIGA Ply EXT-LN

plywood, birch, lignin-based phenol-formaldehyde (LPF), unfaced
in the thickness range: 6.5 mm ≤ 50 mm

which was assessed as compliant with formaldehyde emission standards
of TSCA Title VI § 770.10 (b).

This certificate, first issued on September 13, 2022, is valid as long as the continuous supervision, quarterly per year will be carried out by Fraunhofer WKI. For more information about TSCA Title VI, please visit EPA at: <https://www.federalregister.gov/documents/2016/12/12/2016-27987/formaldehyde-emission-standards-for-composite-wood-products>



Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V., München

Executive Board

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Prof. Dr. rer. publ. ass. iur. Alexander Kurz
Prof. Dr. rer. nat. habil. Axel Müller-Groeling

Dipl.-Ing. Harald Schwab
Head of the Testing, Supervision
and Certifying Body
Braunschweig, September 13, 2022



ATTESTATION

No. WKI-1443-1/2024

Inspection date: February 28, 2024

By order of the State of **California - Air Resources Board**, according the Executive Order W-22-004, relating to ARB approval of Third-Party Certifiers under Section 93120.4, Title 17, California Code of Regulations

Fraunhofer Institute for Wood Research

Wilhelm-Klauditz-Institut WKI
Riedenkamp 3, 38108 Braunschweig, Germany

has

- 1) verified the accuracy of the emissions testing procedures and equipment used by the manufacturer of composite wood products to perform formaldehyde emissions testing,
- 2) monitored the manufacturers quality assurance programs,
- 3) assessed that the below mentioned product fulfils the emission requirement according table 1 of § 93120.2 of **Phase 2** and
- 4) provided independent audits and inspections as an ARB approved Third-Party Certifier pursuant to Surveillance Agreement No. 1443 in the first quarter of 2024 at:

Latvijas Finieris AS
subsidiary company RSEZ SIA "VEREMS"
Lejas Ancupani
LV-4604 Veremu parish
Latvia

for the product:

RIGA Ply EXT-LN
plywood, birch, lignin-based phenol-formaldehyde (LPF), unfaced
in the thickness range: $6.5 \text{ mm} \leq 50 \text{ mm}$

This attestation confirms the validity of the Certification No. 1443-2022-09-TPC-4.

For more information about ARB's program, please visit ARB at:
ww2.arb.ca.gov/our-work/programs/composite-wood-products-program



Dipl.-Ing. Harald Schwab
Head of Department Quality Assessment
Braunschweig, April 5, 2024



ATTESTATION

No. WKI-1443-1/2024

Inspection date: February 28, 2024

Under the terms of TSCA Title VI – Formaldehyde Standards for Composite Wood Products §770.7 (c)(4)(i)(A-F)

Fraunhofer Institute for Wood Research

Wilhelm-Klauditz-Institut WKI
Riedenkamp 3, 38108 Braunschweig, Germany

- A) has verified that the panel producer quality assurance and quality control procedures are complying with the requirements,
- B) has verified the panel producer's quality control test results,
- C) has established a quality control limit (QCL) for the product type,
- D) established a process that will be used if products exceed the QCL,
- E) provided the CARB or EPA TPC number to the panel producer for labelling and recordkeeping and
- F) inspected the panel producer, its products and records as EPA approved Third-Party Certifier and according to Surveillance Agreement No. 1443 in the first quarter of 2024 at:

Latvijas Finieris AS
subsidiary company RSEZ SIA "VEREMS"
Lejas Ancupani
LV-4604 Veremu parish
Latvia

for the product:

RIGA Ply EXT-LN

plywood, birch, lignin-based phenol-formaldehyde (LPF), unfaced
in the thickness range: 6.5 mm ≤ 50 mm

This attestation confirms the validity of the Certification No. 1443-2022-09-TPC-4.

For more information about TSCA Title VI, please visit EPA at:

<https://www.federalregister.gov/documents/2016/12/12/2016-27987/formaldehyde-emission-standards-for-composite-wood-products>



Dipl.-Ing. Harald Schwab
Head of Department Quality Assessment
Braunschweig, April 5, 2024



C E R T I F I C A T E

ULEF-EXEMPT TPC-10/ULEF-E/2119003-PW-2024-01

Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) (TPC-10)
Zellescher Weg 24, D-01217 Dresden, Germany

as US CARB and EPA-recognized TPC, has received a completed application for ULEF exemption submitted by below-named panel producer of composite wood products in accordance with 40 CFR §770.2(e) and §770.18(a) and CARB ATCM 93120.3(d) and

HEREBY AFFIRMS THAT

LATVIJAS FINIERIS AS, mill Kohila Vineer OÜ

Jõe tn. 24, Kohila, 79808 Raplamaa, Estonia

PRODUCT SCOPE

RIGA ® birch HWPW-VC, phenol-formaldehyde (PF), unfaced
in the nominal thickness range of 4 - ≤ 50 mm (0.17 to 2.0 inches)

HAS FULFILLED THE REQUIREMENTS OF

EPA TSCA Title VI - 40 CFR 770.18(d) Ultra low-emitting formaldehyde (ULEF) resins exemption from certification and testing

CARB ATCM 93120.3(d) - Special Provision for Manufacturers of HWPW, PB and MDF with Ultra-Low-Emitting Formaldehyde Resins

The validity of this document is subject to the requirements defined in 40 CFR §770.18(h)(i).

Issue date: March 25, 2024

Date last revised: March 25, 2024

Expiration Date of ULEF Exemption: March 24, 2026

This AoC is based on EPH's ULEF Approval No. AP-ULEF-E/2119003-PW-2024-01

25 March 2024

Date



Dr.-Ing. Rico Emmler
Certification Body

ATTESTATION OF CONFORMITY

TSCA-CARB-2024-03-25-09

In accordance with the provisions of Third Party Certification required within US EPA TSCA Title VI – 40 CFR Part 770 – Formaldehyde Emission Standards for Composite Wood Products and the Final Regulation Order of “Airborne Toxic Control Measure (ATCM) to Reduce Formaldehyde Emission from Composite Wood Products” - § 93120 - 93120.12, title 17, California Code of Regulations – by the California Air Resources Board (CARB),

Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH)

Zellescher Weg 24, D-01217 Dresden, Germany

as CARB-approved and EPA- approved **TPC-10** has

- (A) verified that the panel producer’s quality assurance and quality control procedures are complying with the requirements
- (B) verified the panel producer’s quality control test results compared with test results from ASTM E1333 or ASTM D6007, by having the TPC laboratory conduct quarterly tests
- (C) established quality control limit(s) (QCLs) for each product type
- (D) established a process that will be used to determine if products are exceeding the applicable QCL
- (E) provided the CARB or EPA TPC number to the panel producer for labeling and recordkeeping; and
- (F) inspected the panel producer, its products and records at least quarterly

according to Third Party Supervision and Certification Contract no. TSCA-CARB-2019-03-12-01
and certifies that the product

RIGA® birch HWPW-VC, phenol-formaldehyde (PF), unfaced in the nominal thickness range of 4 - ≤ 50 mm (0.17 to 2.0 inches)

manufactured by

Latvijas Finieris AS, mill Kohila Vineer OÜ

at its manufacturing site

Jõe tn. 24, Kohila

79808 Raplamaa, Estonia

complies with the applicable emission standards set forth
in TSCA Title VI – § 770.10 and CARB Phase 2 according to table 1 of § 93120.2.

This evaluation is based on Supervision Report No. 2119003/2024/01 dated 25 March 2024. This attestation confirms, as a proof of continued TPC certification, the validity of the Initial Certificate No. CARB-2019-05-06-01 and TSCA-2019-05-06-02 and remains effective for the agreed surveillance period unless the requirements and conditions, under which this attestation has been issued, have changed considerably.

25 March 2024

Date



Dr.-Ing. Rico Emmeler
Certification Body