

# Riga **EC**Ological

## Green Breakthrough in Riga Wood Plywood Gluing Technology

Doing Our Part for the Planet



**Riga Wood**   
Latvijas Finieris Group



# For a safer environment to live and work in

*Recyclable lignin-based Riga ECOlogical improves  
the major environmental performance indicators  
of Riga Wood plywood all the way  
from production to final end-use applications.*

*Enhancing sustainable innovations  
without compromising  
on technical performance.*

*Is it possible  
to make  
plywood  
any greener?*



## What is Riga ECOlogical?

Riga ECOlogical is our technological breakthrough in green gluing solutions. Bio based and renewable lignin is used as a replacement for traditional fossil products. Lignin is a recyclable and ecologically friendly product, abundantly available in the entire world in trees and plants.

It is a wood component that gives plants shape and stability as a kind of connector, thus solidifying the cell wall. At Riga Wood plywood, lignin is now bonding our numerous veneer layers.

## Redefining plywood

Is it possible to make plywood any greener?  
We have proven that it is.  
As the global leader of performance oriented birch plywood-based product solutions, at Riga Wood we are well aware of the need to change the existing industrial patterns to build a sustainable and safe future.

Therefore, we have integrated sustainability principles deeply into our production processes and product concept with our green bonding solution – Riga ECOlogical.

# Main features of Riga ECOlogical

01

## Renewable

Replacing fossil phenol with bio-based lignin – reduction of carbon footprint.

02

## Stable Cost Structure

Reduced dependency on fossil raw material bringing in security of supply and stable cost structure.

03

## High Performance

Superior mechanical properties – elasticity, bonding, bending.

04

## Consistent Quality

Consistent utmost product performance.

05

## Eco-friendly & Safe

High environmental performance both in manufacture and end use.

06

## Traceability

Sustainably managed raw material resource.

07

## Bioeconomy

Adding value to forest industry side streams.

08

## Innovation & Development

Building the future towards a new sustainable plywood industry.

09

## Natural

Use of a wood-based non-toxic raw material.

A new future for adhesives based on

# 100% bio-based kraft lignin

## Produced in European Union

Product development in joint cooperation with the largest kraft lignin producer in the world – Stora Enso.



# Benefits of choosing Riga ECOlogical

## Sustainability

- Eco-friendly substitute of fossil products
- Meeting environmental criteria, BREEAM and LEED compliant
- Better quality of life in a healthier environment
- Green thinking – renewable raw material with sustainable origin
- Contributing to the European Green Deal targets

## Competitive edge

- Improving profitability – increasing possibilities to sell your product through ecological argumentation
- Significantly reduced carbon footprint, VOC and formaldehyde emissions
- Stable cost structure
- Green product development for sustainable living – including such products as parquet, flooring, linings, panels

## Volatile organic compounds

### 3x less total VOC

VOC reduced 3 times\* when using Riga ECOlogical

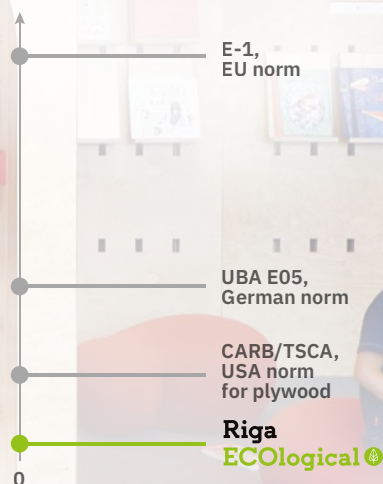
### Including 20x less formaldehyde emissions

Riga ECOlogical plywood has 20 times less formaldehyde emissions than required by E-1 standards

\* in comparison with phenol-based glue  
Tested in eco-INSTITUT, leading product emissions and chemical content testing provider based in Cologne, Germany.

## Reduced formaldehyde emissions

Indicative ratio



# Riga Wood – part of Latvijas Finieris Group

Sustainability and responsibility have always been at the core of Latvijas Finieris Group activities. Hence, Riga ECOlogical is not a stand-alone product but yet another strategic initiative in Latvijas Finieris and Riga Wood brands' sustainable path across the entire supply chain.

By introducing plywood with lignin glue into our portfolio, we want to give our clients the opportunity to make the change with us – to make the difference for better living and conducting of daily business.

Exports Worldwide

95%

Countries Served

70

## Our strengths

01

### Wide product portfolio and services

Numerous standard products and endless variation possibilities.

02

### End-use experts

Providing excellent product expertise to our clients to find the best solution for each industry.

03

### Flexibility and client orientation

Countless tailor-made and customised product and logistic solutions to meet your needs.

04

### 12 sales and product development offices

Direct contact to your own local/regional sales office supported by an international manufacturing network.

05

### Sustainability

Offering sustainably managed products and brands.

# Your Sustainable Choice

[rigawood.com](http://rigawood.com)  
[info@rigawood.com](mailto:info@rigawood.com)