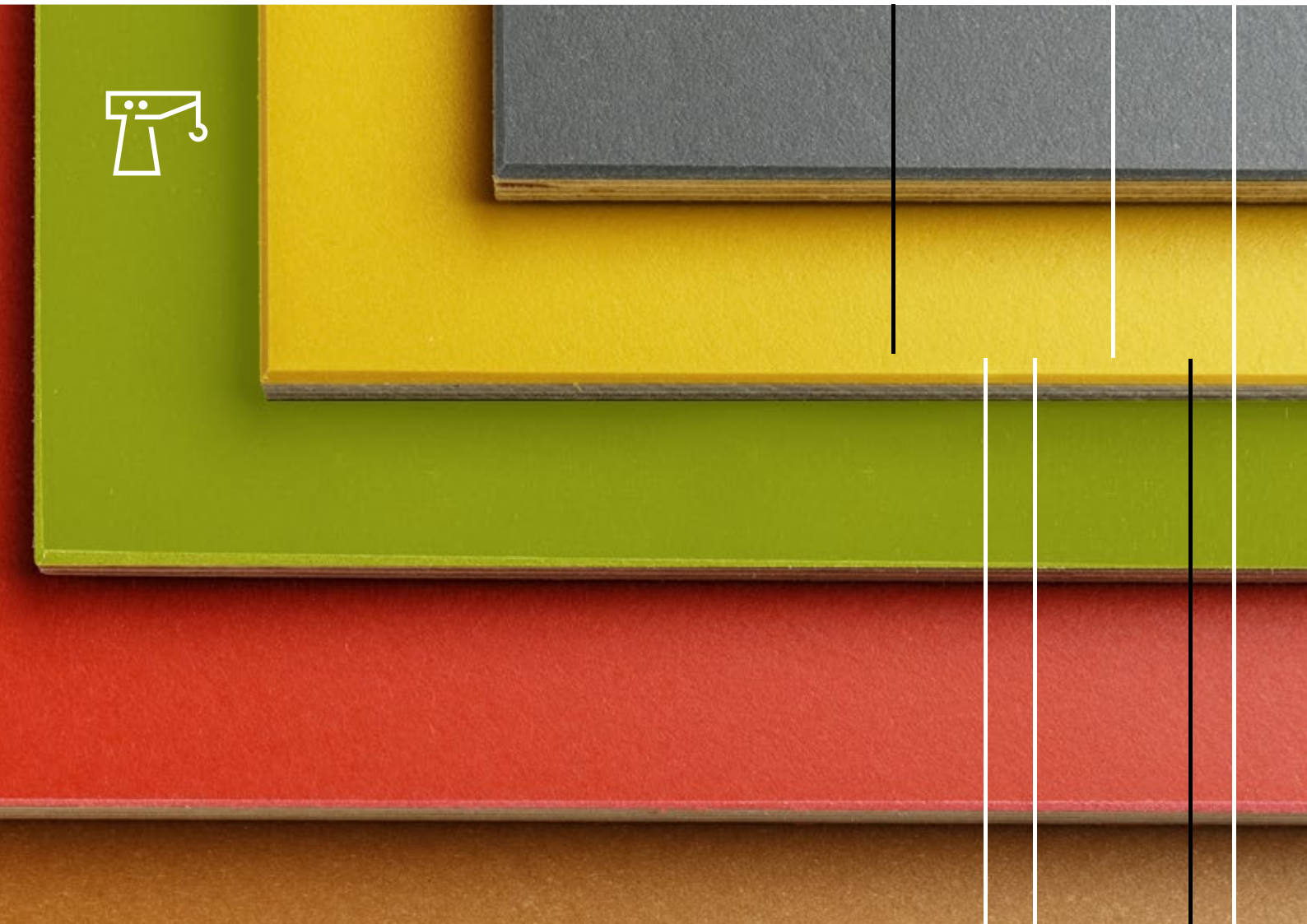
Heavy Building

RigaWood
Latvijas Finieris Group

Riga Poliform

Specialty Formwork Plywood Panel



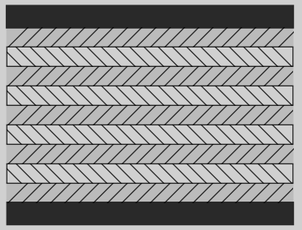
Designed to last longer

Riga Poliform is a specialty formwork panel designed to last longer and serve during multiple reuses. Its superb mechanical properties combined with a hard-wearing composite overlay provide for an ideal alternative to traditional formwork practice. Depending on specific end use and site practice, Riga Poliform can be applied as many as 300 times thus saving time and money.

Construction of Riga Poliform panels

Riga Poliform is a birch throughout plywood, overlaid with a high performance and highly durable wood-plastic composite (WPC) material. The composite material is made of wood fibres and polypropylene or polyethylene with an overlay thickness of either 0.8 mm or 1.6 mm. The coating usually covers both faces but, upon request, it is possible to coat the reverse side with film.

Two coating types available:
WPC SP1 – high surface hardness for durability
WPC SP2 – higher surface elasticity for nailing applications



Overlay: wood fibre and polypropylene or polyethylene composite

Core: cross-bonded birch veneers, number of plies according to panel thickness

Overlay: wood fibre and polypropylene or polyethylene composite

Application

Riga Poliform is perfect for vertical, special and frame formwork systems in need of smooth, high quality concrete finishing.

HEAVY BUILDING

Formwork systems
Precasting

Major advantages

- Tough and impact resistant surface for smooth concrete finish
- No rippling
- As many as 300 reuses when correctly installed
- Recycled wood fibres utilised in the wood-plastic overlay
- Water resistant surface and weather resistant gluing
- Surface is resistant to commonly used concrete release agents, diluted acids and alkalis, easy to clean with water or steam for repeated uses
- Easy to machine and fix on site
- Variety of standard sizes, cut-to-size and jointed panels available
- Sustainable product with long life-span

Sustainable plywood

Riga Wood plywood is manufactured in countries with extensive, long-term forestry competence. Our timber supply chain is certified in line with international sustainable forest management standards and complies with European Union Timber Regulation. By choosing our plywood, you are promoting the best sustainable forestry practices through your products. The key principles of sustainability and responsible governance are deeply rooted in our company's traditions and we aim to further develop our initiatives by actively engaging with stakeholders, material suppliers and clients.

We strongly believe that wood-based products in industrial use are a great option for carbon storage and a big part of the solution to achieve climate change mitigation. Therefore we strive to include the principles of sustainability in our plywood product concept.

- Developing long-term sustainable solutions preserving biodiversity and securing a safe living and working environment
- Only timber from sustainably and responsibly managed forests is sourced
- Legal, traceable and controllable sources of raw materials
- Riga Poliform's composite coating is produced from up to 40% wood side-stream materials, resulting from plywood production
- Reusable panels, saving resources and reducing waste

Standard panel sizes and further processing

Size, mm	1220 / 1250 x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 / 3340 / 3660
	1500 / 1525 x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 / 3340 / 3660

Riga Poliform can be further processed according to customer's specification with cut-to-size, CNC, drilling, milling, jointing, edge machining, and assembling in sets.

Providing excellent surface properties

The wood-plastic composite coating offers a highly durable, hard and dense surface, increasing panel resistance against mechanical damage and wearing. It resists concrete release agents, cement alkalis and other corrosive chemicals.
The panels can be used within a temperature range from –40 °C up to +80 °C, thus cold temperatures can reduce WPC flexibility making it less suitable for nailing. After use, panels release well and maintain their performance for a long time.

Unique composite coating

The composite material was developed by our Research & Development team, who is continuously looking for innovative ways to build sustainable and environmentally friendly products. The durable Riga Poliform coating is made of wood fibres and polypro-pylene. The wood fibres are a side-stream from our plywood production process, collected plywood sanding dust which is mixed with high strength polypropylene.

Coating advantages and properties

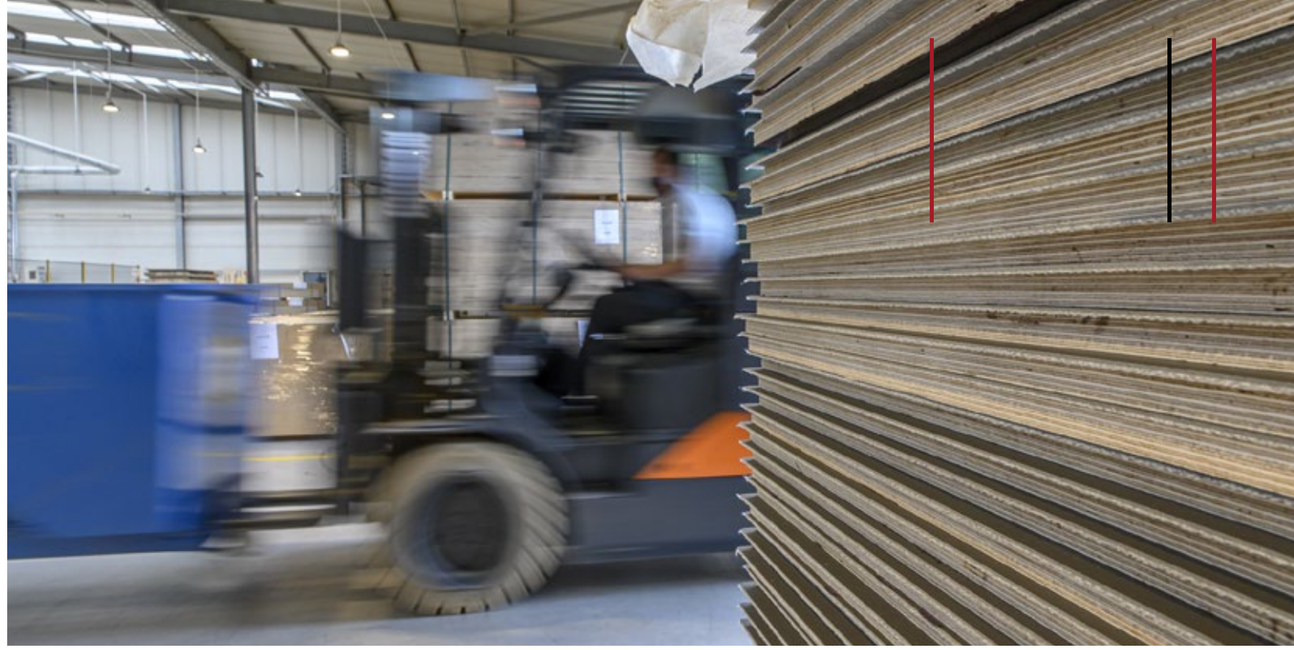
- Long lifetime construction boards due to the firm surface
- Good resistance to cement alkalis and other corrosive chemicals
- High strength polypropylene (PP) +40% recycled wood fibre

Overlay properties

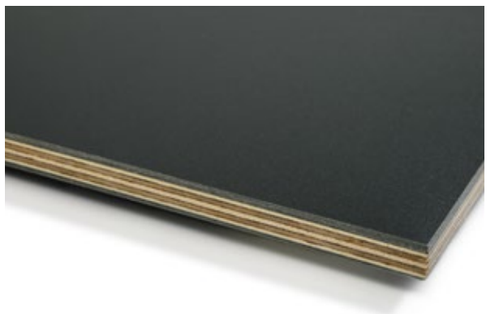
	Unit	Testing method
Hardness	WPC SP1 >72 WPC SP2 >62	Shore D
Melting temperature	160 °C	ISO 3146
Service temperature	-40° ...+80°	(long term)
Surface glossiness	<10 (GU) 60°	EN ISO 2813: 2015
Surface roughness	Ra max 10 µm	ISO 16610-21
Scratch resistance	<3 N	EN 438 –2 + A1: 2019
Taber test WPC SP1	<17,000 revolutions	EN 438-2
Taber test WPC SP2	<27,000 revolutions	EN 438-2

Eye catching colours

The standard Riga Poliform colour is matt grey, although other bright and vivid colours are available. Colour pigments do not leave stains on concrete. Possibility to develop new colour tones upon request.



Grey
Closest RAL code 7010



Yellow
Closest RAL code 1021

Red
Closest RAL code 3020

One of the main components of the coating is recycled wood fibres (>40% of the volume). As wood is a natural material, it may cause slight colour variation.

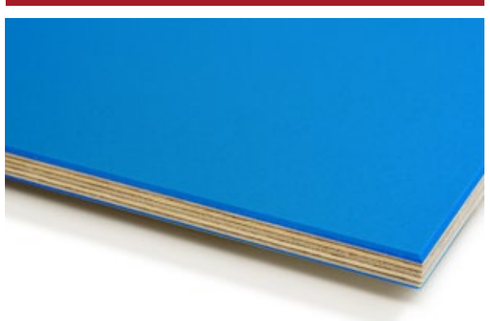
Colour tone may slightly vary

RAL 7043
Traffic Grey B

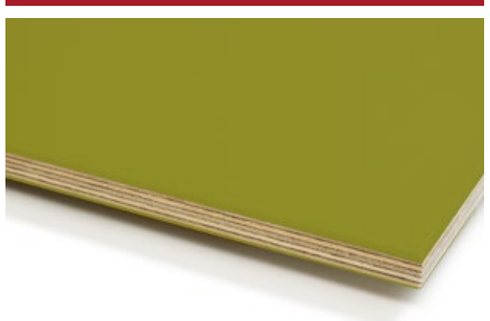
RAL 7010
Tarpaulin Grey

RAL 7015
Slate Grey

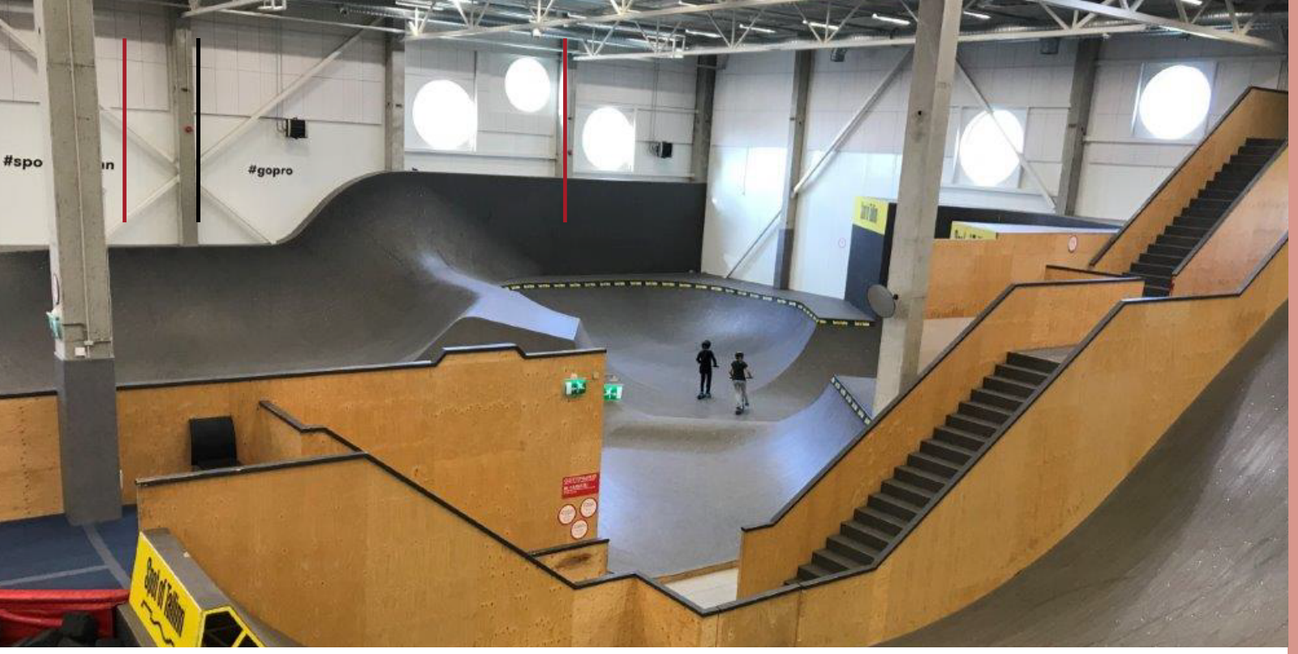
Blue
Closest RAL code 5009



Green
Closest RAL code 6032



Natural
Without pigment



Customised branding possibilities

To ensure your company's visibility and recognition on construction sites, we can provide a customised logo foil for the reverse side of the panel. The foil gives a glossy finish for the highly UV resistant surface, minimum order quantity applies.

Edge sealing

The edges are sealed with colour matched moisture resistant paint. Other colours are available upon request.

Gluing classes

Riga Wood birch plywood – the core of Riga Poliform – is glued with weather and boil-proof phenol formaldehyde or lignin phenol formaldehyde resin adhesive according to EN 314/Class 3 Exterior.
The composite coating is bonded with a combination of melamine-urea formaldehyde (MUF) adhesive with hardener intended for end-uses where high water and weather resistance is needed.

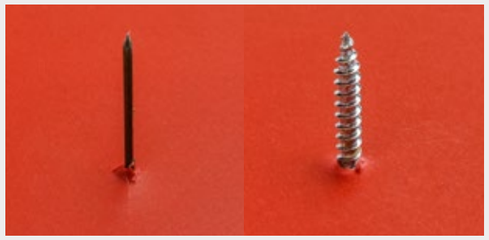
Controlled emissions

Riga Wood birch plywood formaldehyde emission level is significantly below EN 13986 Class E1 and complies with EPA TSCA Title VI and CARB Phase 2.

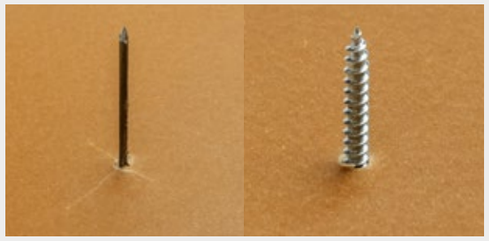
Surface cracking susceptibility

Colder temperature affects surface cracking susceptibility. When product application requires nailing, cracking is possible. As an alternative, screws can be used.

WPC SP1 0.8 mm



WPC SP1 1.6 mm



Riga Poliform tolerance

Nominal thickness, mm	Number of veneer plies / WPC coating	Lower limit, mm	Upper limit, mm
9	5 / 2	9.3	10.1
12	7 / 2	12	12.7
15	9 / 2	14.7	15.7
18	11 / 2	17.5	18.5
21	13 / 2	20.3	21.3
24	15 / 2	23.2	24.1
27	17 / 2	26.1	26.9
30	19 / 2	29	30
35	21 / 2	31.9	33.1
40	25 / 2	36.8	38.6
45	29 / 2	41.6	44.4
50	32 / 2	46.5	49.6

Measurements for overall thickness, including WPC coating of 2 x 1.6 mm.
Moisture content affects plywood dimensions; indicated sizes and thicknesses relate to a moisture content of 9 ±3%.

Parameter	Tolerance
Length, width (mm) < 1000	± 1 mm
Length, width (mm) - 1000...2000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	± 1 mm/m
Edge straightness	± 1 mm/m

Size and squareness tolerances fulfil the requirements of EN 315.
Customised tolerances available on request.

Safe storage

- Riga Wood plywood must be stored in a well ventilated, weather protected area with the panels stacked both horizontally and level
- The upper Riga Poliform panel should not be placed in direct sunlight
- Same size Riga Poliform packs may be stored up to three packs high
- Bearer alignment must be maintained

Riga Wood – the market arm of Latvijas Finieris Group

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 possible solution for each industry.

03

Flexibility and client orientation
Countless tailor-made and customised product and logistics solutions to meet your needs.

04

12 Sales and Product Development offices
Direct contact to a regional sales office supported by an international manufacturing network.

05

Sustainability
Offering sustainably managed products and brands.

Exports Worldwide 95%

Countries Served 70

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03/2026