

LIP FORMWORK PANELS-287

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# Formwork panels

The ecological, dimensionally stable solution for concrete surfaces.



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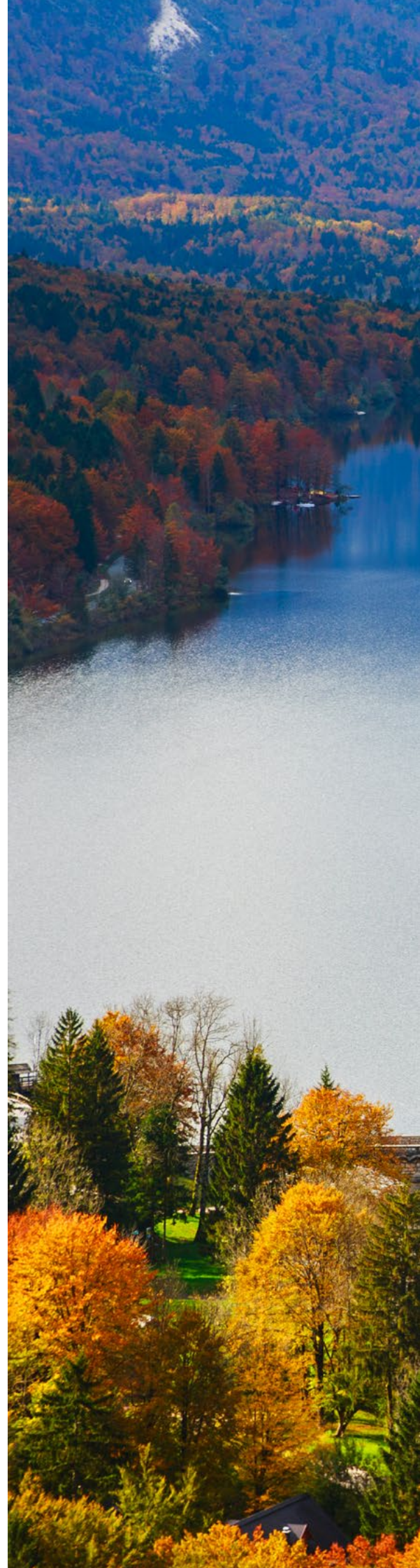
# LIP Bohinj – about the company

LIP Bohinj is located near the imposing mountain scenery of the Triglav National Park, surrounded by green forests and crystal clear lakes. The company has been embodying sustainable management for many decades, because the forest provides us with the necessary raw materials for our quality products. Our wood is sourced from sustainably managed forests in the region and provides the basis for our ecologically long-lasting and dimensionally stable and long formwork panels.

We comply with the highest EU standards regarding environmental protection and nature conservation and actively contribute to reducing environmental impact with our efficient manufacturing process and the use of environmentally friendly materials. In addition, the harmful greenhouse gas CO<sub>2</sub> is bound in our wood products in the long term and thus has a strong emission-reducing effect. We are a member of HASSLACHER group.

## Sustainability

The HASSLACHER Group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our locations are certified according to the strict PEFC™ standards.









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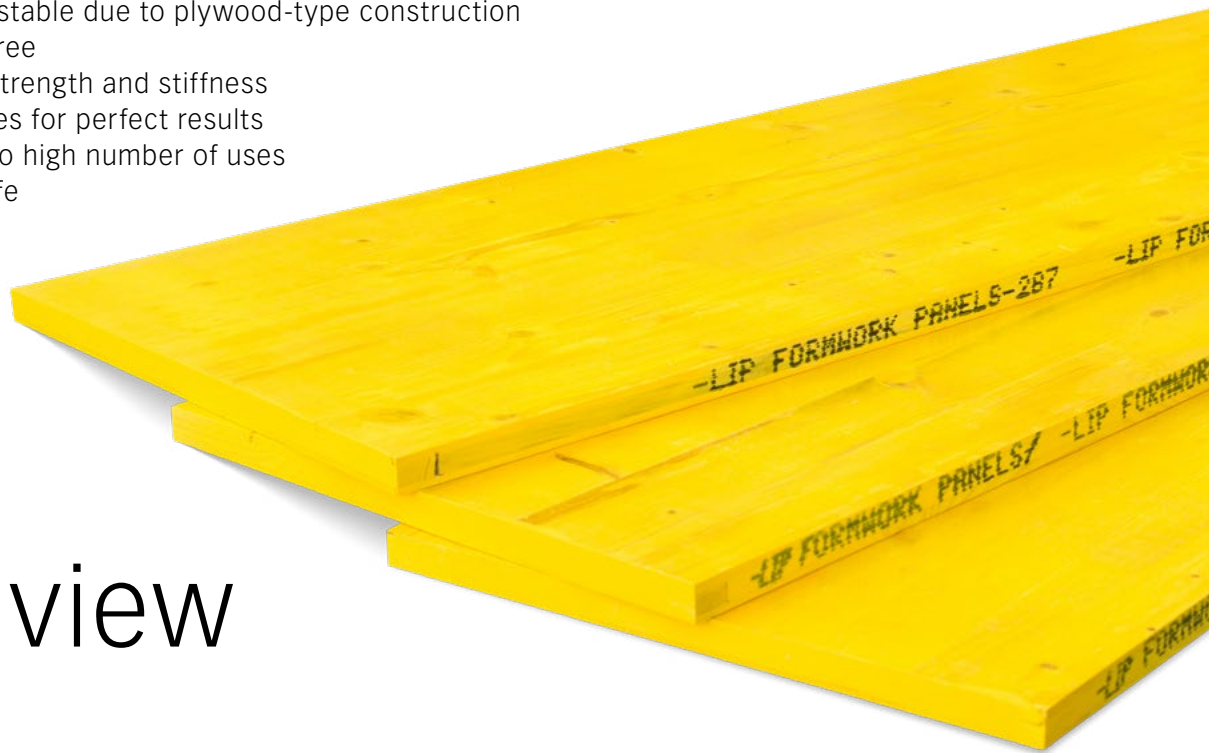
## At a glance

### Applications

- ⊕ Concrete formwork systems
- ⊕ Wall formwork
- ⊕ Ceiling formwork
- ⊕ Formwork for civil engineered structures
- ⊕ (Bridge construction, foundations)
- ⊕ Tunnel formwork

### Benefits

- ⊕ Dimensionally stable due to plywood-type construction
- ⊕ Almost crack-free
- ⊕ High bending strength and stiffness
- ⊕ Sanded surfaces for perfect results
- ⊕ Low cost due to high number of uses
- ⊕ Long service life



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## Overview

### Product standard

ÖNORM B 3023

### Thicknesses

21 mm

27 mm

### Sizes

Widths: 500 mm

Lengths: 1,000 to 3,000 mm  
at 500 mm intervals

### Surface

sanded and sealed with melamine resin

### Edges

The edges are framed with side and head battens and protected with an acrylic coating

### Wood species

Top layer: Spruce/fir

Middle layer: Spruce, fir, pine

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## Technical data



### Bonding

Alkali, water- and weather-resistant adhesive

### Wood humidity

15 % ± 3 % at dispatch

### Mass in kg/m<sup>2</sup>

21 mm thickness: 10.0 kg/m<sup>2</sup>

27 mm thickness: 12.5 kg/m<sup>2</sup>

### Density

approx. 400 kg/m<sup>3</sup> to 500 kg/m<sup>3</sup>

### Shrinking and swelling behaviour

Normal to panel plane  $\alpha_{u,90} = 0,24$  % every 1 % wood humidity difference

At panel plane  $\alpha_{u,0} = 0,01$  % for every 1 % wood humidity difference

### Surface

- ⊕ SELECT quality
- ⊕ STANDARD quality
- ⊕ Sanded surface
- ⊕ With hardy melamine resin sealing

### Size tolerances

EN 13353 applies.

Length, width: Limit deviation ± 2 mm

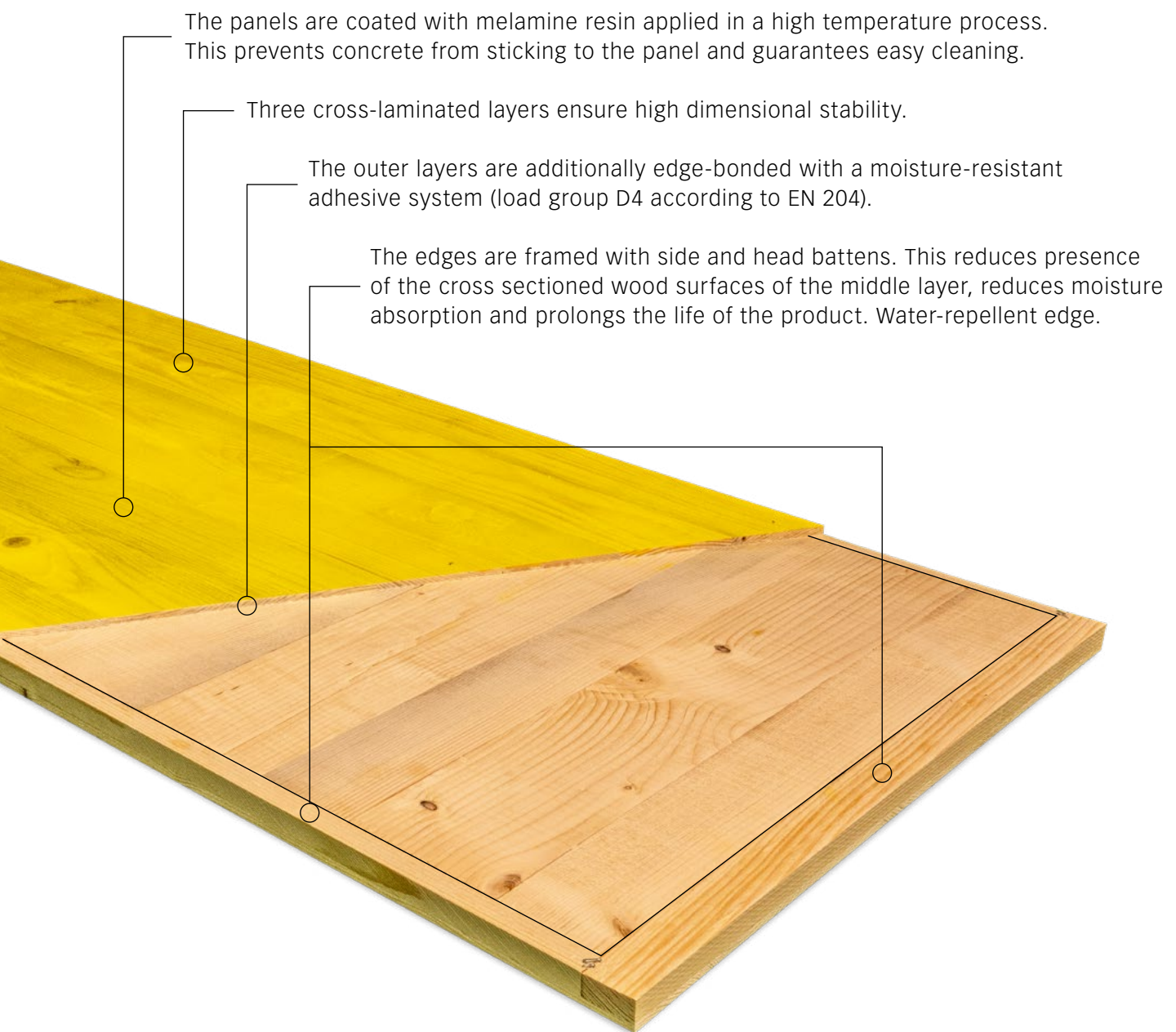
Panel thickness: 0.5 mm within a single panel  
Limit deviation ± 1 mm

Edge straightness: 1.0 mm/m

Perpendicularity: 1.0 mm/m

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## Innovative, premium panel structure



The panels are produced on the basis of the internationally accepted ÖN B 3023 standard.

The two outer layers consist of longitudinal lamellas that are bonded to the middle layer. The latter is composed of small slats running crosswise, framed with side and head and battens.

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## Product range

### Panel sizes

**Thickness** 21 mm, 27 mm

**Sizes** 500 x 1,000 mm, 500 x 1,500 mm, 500 x 2,000 mm, 500 x 2,500 mm, 500 x 3,000 mm

### Packaging units

- ⊕ Every package is wrapped in a plastic hood (with UV filter).
- ⊕ Other packaging units can be supplied upon request.

Thickness	Size (mm)	Units per package	m <sup>2</sup> per package
21 mm	500 x 1,000	2 x 50 units	50 m <sup>2</sup>
	500 x 1,500	2 x 50 units	75 m <sup>2</sup>
	500 x 2,000	2 x 50 units	100 m <sup>2</sup>
	500 x 2,500	2 x 50 units	125 m <sup>2</sup>
	500 x 3,000	2 x 50 units	150 m <sup>2</sup>
27 mm	500 x 1,000	40 units	20 m <sup>2</sup>
	500 x 1,500	40 units	30 m <sup>2</sup>
	500 x 2,000	40 units	40 m <sup>2</sup>
	500 x 2,500	40 units	50 m <sup>2</sup>
	500 x 3,000	40 units	60 m <sup>2</sup>

### Truck transport

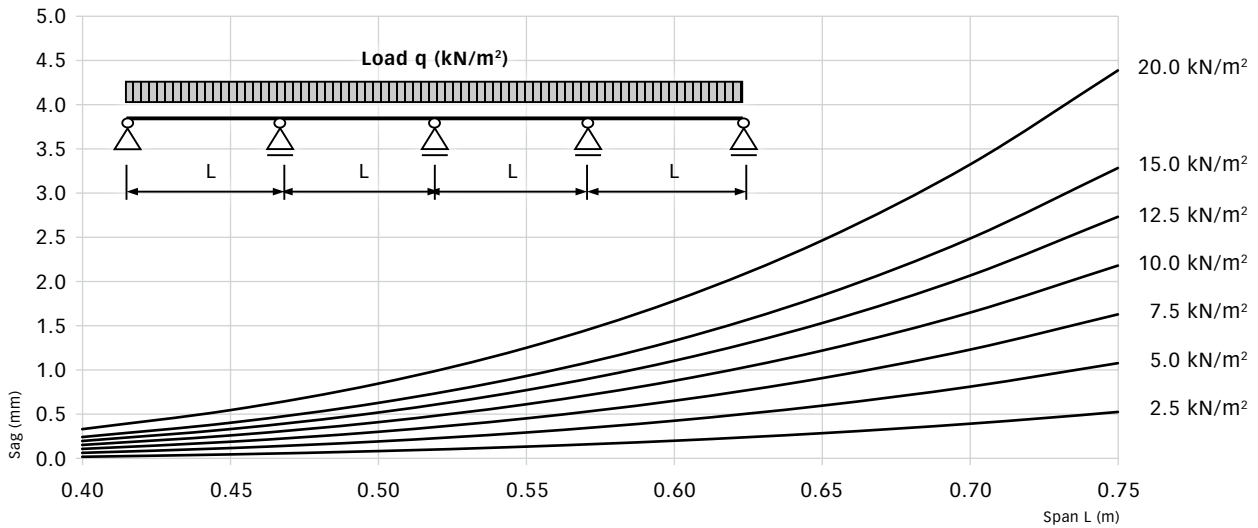
- ⊕ Thickness 27 mm: 1,900 m<sup>2</sup> / truck (13.6 m)
- ⊕ Thickness 21 mm: 2,300 m<sup>2</sup> / truck (13.6 m)



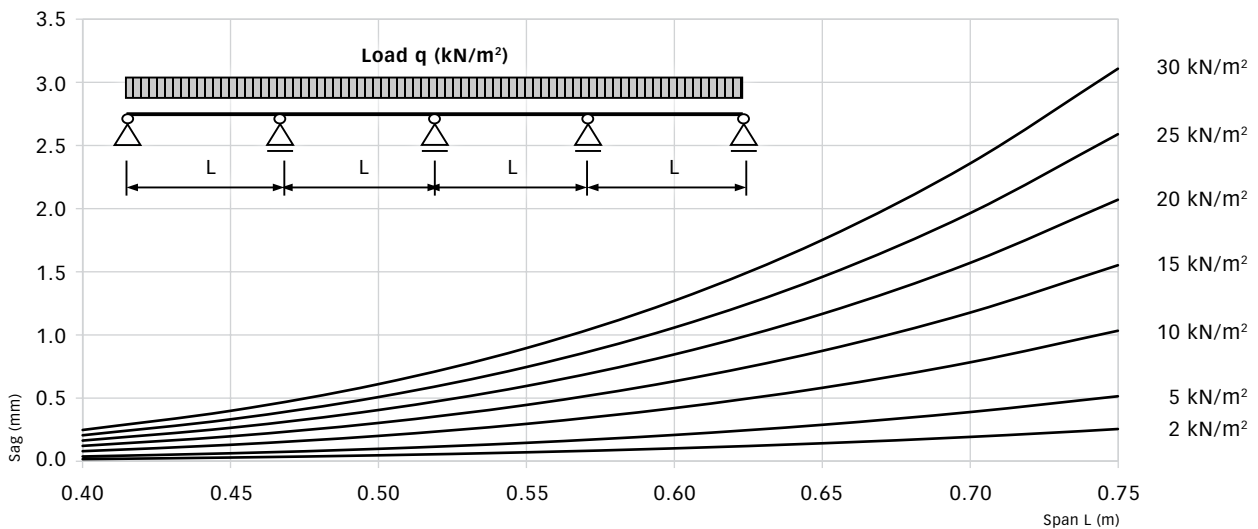
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# Pre-measurement tables

Formwork panel sag LIP Bohinj, d.o.o.  
3-layer, thickness 21 mm



Formwork panel sag LIP Bohinj, d.o.o.  
3-layer, thickness 27 mm





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## Long-lasting

### Care, storage, cleaning and treatment notes

#### Recommendations for use

For the highest possible number of uses and a long service life of the formwork panels, these recommendations for use must be followed.

- ⊕ The panels should be treated with suitable formwork oil and sprayed with sufficient water immediately before concreting.
- ⊕ After stripping the formwork, the panels should be cleaned as soon as possible and stored on a level surface.
- ⊕ For maintenance, suitable formwork oils are recommended, which are to be used according to the manufacturer's instructions.
- ⊕ Formwork panels should be nailed, drilled or screwed through as little as possible, otherwise the protective coating and thus the service life will be impaired.



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# HASSLACHER Group product range



Sawn timber



Surfaced timber



Structural finger jointed solid timber & GLT®



Glued solid timber DUO/TRIO



Glued laminated timber



Glulam ceiling systems





Cross Laminated Timber



Glued laminated timber special components



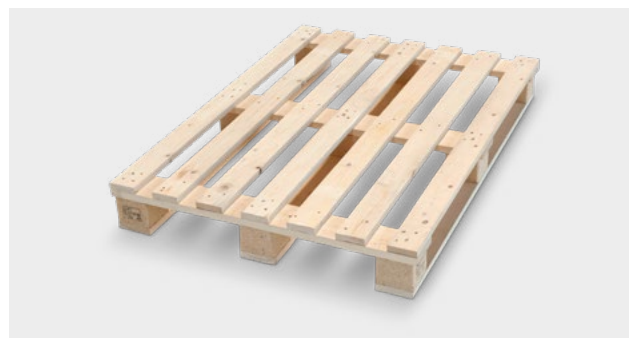
Special products



Pellets



Shuttering boards



Pallets & packaging solutions

# LIP BOHINJ

From **wood** to **wonders**.

A **MEMBER** of **HASSLACHER** group

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