








## SURFACE VISUAL QUALITY CLASSES OF GLUED LAMINATED TIMBER STRUCTURES MADE BY UAB “JÜRÉS MEDIS“




*Prepared according to recommendations of German Laminated-Wood Research Laboratory (Association) (Studiengemeinschaft Holzleimbau e.V.).*




**Deviating or further-reaching requirements (others than listed) are to be agreed separately and stated in the specification.**

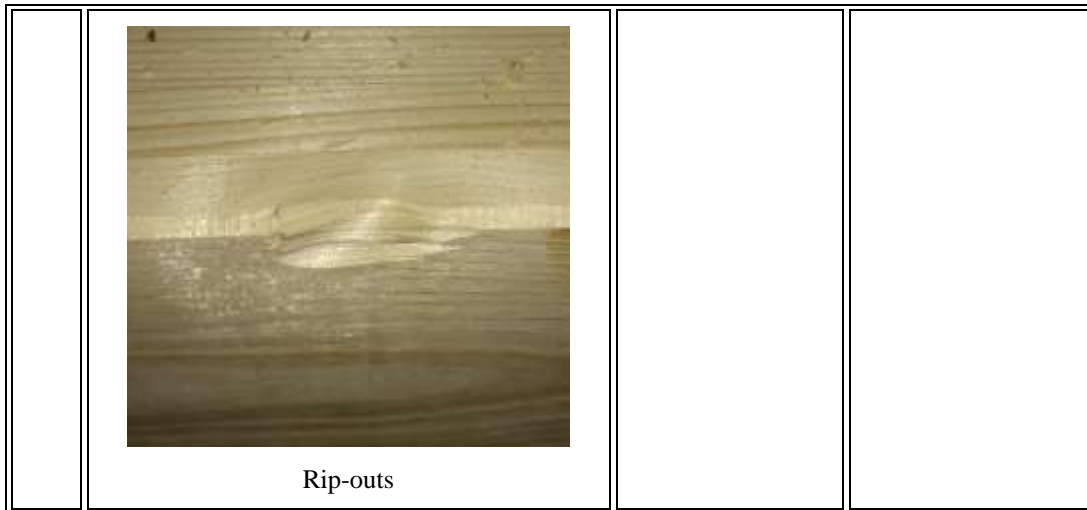
No.	Criteria <sup>1</sup>	Industrial quality	Standard quality
1	 <p style="text-align: center;">Firmly grown knots <sup>2,3</sup></p>	Permitted	Permitted
2	 <p style="text-align: center;">Fallen and loose knots with bark remnants <sup>2,3</sup></p>	Permitted	<p>Up to <math>\varnothing \leq 20 \text{ mm}</math> <sup>4</sup> permitted, from <math>\varnothing &gt; 20 \text{ mm}</math> <sup>4</sup> to be replaced in the works</p>

3	 <p>Resin galls<sup>3,5</sup> <i>Delivery condition</i></p>	Permitted	Resin galls are permitted up to 5 mm width
4	 <p>Faulty points improved by means of knot hole plugs or "ships"<sup>3</sup></p>	Not necessary	Permitted
5	 <p>Knots and cracks improved by means of filler compound<sup>3</sup> <i>Number of improvements not limited</i></p>	Not necessary	Permitted <sup>6</sup> <i>To be agreed with the client</i>

6	 <p>Insect attack, bore holes <sup>3</sup></p>	Burrows are permitted up to 2 mm	Permitted bore holes up to 2 mm
7	 <p>Pith</p>	Permitted	Permitted
8	 <p>Cracks caused by shrinking <sup>3,5,7</sup> <i>Delivery condition</i></p>	Not limited	Up to 2 mm width

9	 <p>Discolorations as a result of blue stain, red and brown stripes <sup>5</sup> <i>Delivery condition</i></p>	Not limited	Up to 10% of the whole structure component visible surface area
10	 <p>Mould <sup>5</sup> <i>Delivery condition</i></p>	Not permitted	Not permitted
11	 <p>Contamination of the surface <sup>5</sup> <i>Delivery condition</i></p>	Permitted	Not permitted

12	 <p>Distance between finger joints</p>	Not limited	Not limited
13	 <p>Surface</p>	Unplaned areas are permitted	Planed, edges slightly chamfered. Planed chatter permitted up to a depth of 1 mm
14	 <p>Grown in bark</p>	Permitted	Width up to 10 mm, length up to 60 mm
15		Permitted	Depth up to 2 mm, diameter up to 15 mm



**NOTES:**

<sup>1</sup> Deviations from the limit values defined in the following in lines 2, 3, 6-9, 12, 13 are to be tolerated to the following extent: maximum of three deviations/m<sup>2</sup> visible surface for the quality of vision, maximum of one deviation/m<sup>2</sup> visible surface for selection quality.

<sup>2</sup> Permissible knot size according to DIN 4074-1:2012

<sup>3</sup> Without limitation of the number

<sup>4</sup> Measurement of the diameter of the knots analogue to the measurement of the diameter of individual knots for scantlings according to DIN 4074-1: 2012, 5.1.2.1.

<sup>5</sup> Delivery condition

<sup>6</sup> Filler compound which can be painted over is to be demanded explicitly.

<sup>7</sup> As in all constructional solid wood products cracks can be present. The depth of the crack, measured with a 0.1 mm thick feeler gauge and independent of the quality of the surface for construction components, may be, for members not being subject to tensile-stresses perpendicular to the grain up to 1/6 of the width of the construction component, for members being subject to tensile-stresses perpendicular to the grain, up to 1/8 of the width of the component from each side. With deeper cracks the non-critical state should be checked by an expert.

**If visual surface quality class is not specified in the order, products of standard surface quality are supplied.**

*Glued laminated timber is, compared with solid wood, mainly a crack-resistant wooden material. Cracks on the surface caused by fluctuations in the climate are not a defect and are therefore to be permitted and have no impact on strength of the structure component.*

**UAB "JÜRÈS MEDIS"**