

LENO®-Surfaces

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1. Surfaces of Cross-Laminated-Timber with top layer made from single lamellas

All timber and timber based products are prone to swelling and shrinking if the moisture content in the product changes. To keep the effects of such movements to a minimum, all raw materials in the production of Leno CLT are kiln dried, and all Leno panels are delivered with a moisture content of 10% +/- 2%. This moisture content is equivalent to the equilibrium moisture content of timber naturally occurring in a normal in-door climate. It is impossible to completely avoid the effects of moisture movement (i.e. cracks or gaps) due to the natural properties of timber

CRITERIA	INDUSTRIAL NO REQUIREMENT TO SURFACE AND COLOUR	INDUSTRIAL VISUAL MEDIUM REQUIREMENT TO SURFACE AND COLOUR	SELECTED NORDIC HIGH REQUIREMENT TO SURFACE AND COLOUR
Machining of the surface	equalized, without further surface processing	sanded	sanded
Colour and texture	no requirement	largely balanced	balanced
Type of wood	admixture of other wood species possible	spruce	spruce
Surface made from single lamellas	Yes	Yes	Yes
Distance between lamellas	≤ 6 mm	≤ 3 mm	≤ 1 mm, occasional up to 2 mm
Knots	without restriction	intergrown knots, single black knots and knotholes allowed	intergrown knots and single black knots allowed
Resin pockets	without restriction	smaller single resin pockets allowed	
Plugs (circular and Schiffchen)	without restriction	allowed	single plugs allowed
Discolouration	without restriction	minor discoloration allowed	not allowed
Defects due to inactive insects	without restriction	not allowed	not allowed
Bark	without restriction	occasional bark allowed	not allowed
Pith	without restriction	allowed	occasional allowed
Compression wood	without restriction	allowed	occasional allowed
Adhesive penetration	≤ 1 mm height	flush with surface	not allowed
Rot	not allowed	not allowed	not allowed



1.1 Surfaces



Figure 1: Surface Industrial Quality



Figure 2: Surface Industrial Visual Quality



Figure 3: Surface Selected Nordic Quality

2. Special Surfaces



Figure 4: Surface Kerto-Fineline

2.1. Kerto Fineline

Description

The top layer is made of Kerto Fineline Premium, either one-sided or both-sided for creating a unique and fine character of the surface. Produced by using certified and quality monitored Kerto Laminated Veneer Lumber.

Application

This surface option can be manufactured up to a length of 19.80m, with no visible joints. Curved elements can also be produced in this surface quality



Figure 5: Surface High Quality Oak Veneer

2.2. High Quality Oak Veneer

Description

The panels are overlaid with 5mm thick, sanded Oak veneers. Single, sometimes multiple knots, up to 35mm in diameter, are generally evenly distributed, giving a fine to rustic appearance. The typical growth characteristics of oak form a unique surface. The grading process ensures a predominantly uniform colour. Large and open defects or cracks are cut out or revised.

Application

The surface type 'Oak Veneer' can be produced up to a length of 5.90m with no visible joints. For multi spanning floor panels, any occurring joint can be hidden above or below internal walls or supporting beams.



Figure 6: Surface Fermacell

2.3. Fermacell

Description

2 number boards of each 15mm Fermacell applied to achieve fire resistance of 90 minutes (F 90-B). Clamped, not glued at the joints, not filled or primed, second layer is fixed staggered to first board

2. Special Surfaces



Figure 7: Surface Burshed

2.4. Brushed Surface

Description

Brushing the top surface layer on one or both-sides with brushes made of steel. The brushing underlines the natural grown character and the unique grain of the wood, by removing the softer early wood because the part of the softer early wood will be reduced by the brushes. All kinds of special surface options are available with an brushed surface. If requested the surface can be brushed crosswise to achieve a more rustic look of cutted wood.

3. Notes

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