

# Kerto® LVL



Kerto® LVL products can be further processed according to customer requirements. Further processing is an essential part of customer service and supply chain. It saves time and minimizes waste on building site or in industrial processes.

## Optical Sanding

Visual appearance of the Kerto LVL products can be improved by optical sanding. Optical sanding is always two-sided and it cleans and smoothens the surface by removing e.g. glue stains. The veneer scarf-joints on one side of the product are colourless and on the other side dark brown due to the adhesive colour. This should be taken into account in visible applications.

Optical sanding reduces the original nominal thickness of the product by approximately 2 mm. Structural design shall be made according to the sanded nominal thickness.

## Calibrated Sanding

Calibrated sanding (thickness calibration) is always two-sided according to target thickness. In calibrated sanding the surface veneers are allowed to be sanded through revealing a dark glue line. Calibrated products are not recommended for visible applications without an opaque coating.

In calibrated sanding the original nominal thickness is reduced by approximately 3 mm. Thickness tolerance of the calibrated product is +/- 0.5 mm from the target thickness. Structural design shall be made according to the sanded nominal thickness.

## Edge profiling

Edge profiling of Kerto LVL products is available via subcontractor and shall be agreed separately. The long edges of panels can be profiled with half-lap, easing, tongue and groove (TG2) or groove and groove profiles. Calibrated sanding is recommended for the profiled panels to ensure smooth joints between the panels. Typical edge profiles are presented in Figure 2.



Figure 1. Machined Kerto LVL components

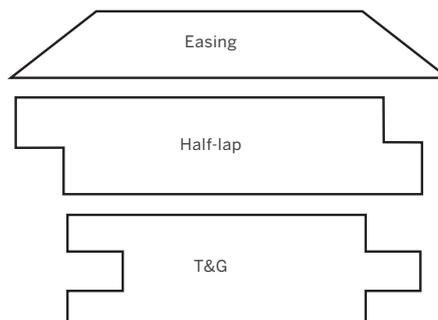


Figure 2. Edge profile options of Kerto LVL products

## Special cutting

Panels and beams can be sawn to special shapes e.g. tapered beams. Special cutting shall be agreed separately.

## CNC machining

Kerto LVL beams and panels can be CNC machined. Different kinds of machining options include drillings, cuttings, shapings, holes and notches. A dwg/3D dwg drawing in size 1:1 is needed for each different type of machining. Drawing must include the whole machined beam or panel. CNC machining shall be agreed separately.

## Multiple gluing (GLVL)

Kerto GLVL is made by multiple gluing two or more Kerto LVL S-beam or Q-panel lamellas together. The lamellas are always calibrated sanded before multiple gluing. Lamellas are glued together using polyurethane or melamine adhesive.

## Surface treatments

Surface treatments improve the properties of Kerto LVL without affecting the strength and stiffness properties. Treated products can be further treated e.g. by painting or lacquering.

**WeatherGuard** is a treatment that forms a hydrophobic surface. The surface rejects rainwater and therefore reduces the amount of water absorbed by the product during construction work. At the same time, the surface allows the product to breathe and water vapour to move freely. Swelling and other undesired moisture effects are significantly reduced compared to untreated products. The effect of WeatherGuard treatment is temporary. If end use application requires, the product should be further coated by using wood protective treatments.

**MouldGuard** is a surface treatment that reduces the risk of mould growth and blue stain compared to untreated Kerto LVL. MouldGuard treated Kerto LVL is recommended to be used in Service Class 2 conditions (e.g. roof structures, attics, sheds and garages).



Figure 3. CNC machined Kerto LVL



Figure 4. Kerto GLVL



Figure 5. WeatherGuard treated Kerto LVL

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