

## Technical Data Sheet

### ( Dasso vertical laminated bamboo Joist)



Product code	Size
<b>VLBJ40-60</b>	<b>L1970*W60*T40</b>

#### Product Description:

Dasso vertical laminated bamboo joist is made by natural bamboo strips which are reconstituted into laminated bamboo, like heat-treated wood after high temperature treatment. It has moderate density, excellent mechanical properties, and has a more stable structure than wood. At the same time, it has high durability and anti-termite performance, suitable for outdoor decking joist applications, instead of natural wood joist products.

#### Product Technical Specification and Tolerance

Specifications Properties	Length/mm	Width/mm	Thickness/mm
<b>Tolerance</b>	±0.5	±0.3	±0.2

Physical Properties	Standard
<b>Density/Specific Gravity</b>	0.6-0.7g/cm <sup>3</sup>
<b>Moisture content</b>	8%-12%
<b>Mechanical performance level</b>	D40 expected (according EN 338)
<b>Static Bending Strength</b>	Mean value:77.9N/mm <sup>2</sup> (EN 408)
<b>Modulus of Elasticity</b>	Mean value:11200 N/mm <sup>2</sup> (EN 408)
<b>Shear strength</b>	Mean value:10.7N/mm <sup>2</sup> (EN 408)
<b>Shear modulus</b>	Mean value:800N/mm <sup>2</sup> (EN 408)
<b>Tensile strength</b>	Mean value:54N/mm <sup>2</sup> (EN 408)
<b>MOE in tension</b>	Mean value:11400N/mm <sup>2</sup> (EN 408)

<b>Compression strength</b>	Mean value:65.4N/mm <sup>2</sup> (EN 408)
<b>MOE in compression</b>	Mean value:9900N/mm <sup>2</sup> (EN 408)
<b>Nail-holding power</b>	3450N(EN 1382)
<b>Thickness of Swelling Rate</b>	3.0%(DIN EN 15534-1)
<b>Width of Swelling Rate</b>	1.8%(DIN EN 15534-1)
<b>Warping</b>	≤6mm and quantity is less than 10%.
<b>Banana Shape</b>	≤1mm/m along the length of the panels
<b>Bamboo Nodes</b>	Nodes are separated its width ≤ 10 mm.
<b>Height Difference</b>	≤0.5mm
<b>Packaging and label</b>	According to packaging layout drawing, check the label

Biological and Chemical properties	Standard
<b>Mould resistance</b>	Class 1c/1a/0 (method A with weathering)
<b>Resistance to blue-stain</b>	Class 0-1 (EN 152)
<b>Termite resistance level</b>	DC S (EN 117/EN 350)

#### Installation summary

- It is normal to have some small cracks on the surface, due to the damp heat and aging of the natural environment;
- The ends should be as close as possible and need to be fixed on the base with screws;
- Slight bending of the joist is normal which doesn't affect its use and performance after installation;
- The recommended distance between the joists is 500mm, and the joist end needs to be on the supporting point to ensure the normal use of the joist.