MOSO® bamboo solid beams (indoor)

With the introduction of the MOSO® Bamboo Solid Beam, bamboo can now also be applied in several (semi) structural applications such as window- and doorframes, where typically (expensive) scarce tropical hardwood is used. Unlike hardwood, the MOSO® Bamboo Solid Beam is a very regular material in terms of stability and structure and is therefore easy to process. The standard length of the beam is 2440mm but by using finger joints any length can be created. The MOSO® Beams are available in the colours caramel and natural, in both the extra hard High Density® version (tropical hardwood look - random line pattern) and the Side / Plain Pressed version (regular line pattern with bamboo nodes visible). Especially in the latter version, due to the construction in various layers, very beautiful line patterns come out after milling.

**technical characteristics and certifications**

- **Density (Product):** +/- 700 kg/m³ (SP), +/- 1050 kg/m³ (HD)
- **Shrink/Swell bamboo:** 0.14% per 1% change in Moisture Content (SP)
- **Equilibrium MC:** 10% at 20°C and 65% rel. Air Humidity
- **Resistance to Indentation - Brinell Hardness:** ≥ 4 kg/mm² (SP), ≥ 9.5 kg/mm² (HD) (EN 1534)
- **Reaction to fire:** Class D-s1-d0 (SP), Class B-s1-d0 (HD) (EN 13501-1)
- **Formaldehyde emission:** Class E1 (< 0.124 mg/m³) (EN 717-1)
- **Modulus of Elasticity:** +/- 9720 N/mm² (SP), +/- 8866 N/mm² (PP), +/- 12505 N/mm² (HD) (mean value - EN 408)
- **Bending strength:** +/- 56.7 N/mm² (SP), 50.8 N/mm² (PP), 65.4 N/mm² (HD) (characteristic value - EN 408)
- **Use Class:** Class 1 (EN 335)
- **Glue:** D3 water resistant
- **CO₂ neutral:** LCA report TU Delft (ISO 14040/44) (www.moso.eu/lca)
- **Environmental Product Declaration - EPD:** (www.moso.eu/epd)
- **FSC®:** Products available with FSC® certification on request.
- **Contribution LEED BD+C v4:** MR 1, MR 2, MR 3 (FSC®), EQ2 v2009: MR 6, MR 7 (FSC®)
- **Contribution BREEAM**: HEA 2, MAT 1, MAT 3 (FSC®), MAT 5 (HD)

Other dimensions available on request.