MOSO® Bamboo Supreme is made from two layers of bamboo, with a 4 mm toplayer and a cross pressed bamboo backing. The total thickness is 10 mm which is relatively thin compared to other wood floors. However, as with any wood species the basic rule is: the thicker, the less stable the wood (shrink/swell). The 10 mm thickness and 4 mm toplayer is an ideal compromise between durability and stability and therefore offers a perfect solution for heavy duty conditions, like installation on floor heating and/or installation in heavy traffic areas.

**Installation Summary**

- **Check room climate conditions** (room temp. 18-21°C, air humidity 40-65%).
- **Check subfloor**: this should be flat/clean/stable and should not exceed the maximum allowed moisture content (for example 1.8% for sand cement).
- **The floor should be fully glued**.
- **Elastic adhesive systems like 1-component Polyurethane or silan type of adhesives** only can be used when:
  - Shear strength $\tau > 1.4 \text{ N/mm}^2$
  - Shear elongation $\gamma > 0.5$
- Please ask your glue supplier for more information.
- **This floor type can be installed** – under certain conditions – on floor heating / cooling.
- **After installation**: make sure proper cleaning and maintenance is done, fitting to the chosen finish. For oiled finish: the floor has to be re-oiled after installation. Polish the oil with a red pad or patina disc (possibly afterwards with white pad).

**Technical Characteristics and Certifications**

- **Density (Toplayer)**: +/- 700 kg/m³ (SP/PP), +/- 1050 kg/m³ (HD)
- **Top layer thickness / Wear layer**: approx. 4 mm
- **Shrink/Swell bamboo**: 0.14% per 1% change in Moisture Content (SP/PP)
- **Equilibrium MC**: 10% at 20°C and 65% rel. Air Humidity (SP/PP)
- **Resistance to Indentation – Brinell Hardness**: $\geq 4 \text{ kg/mm}^2$ (SP/PP), $\geq 9.5 \text{ kg/mm}^2$ (HD) (EN 1534)
- **Wear resistance**: $\geq 5000$ Revolutions (WR2) (SP/PP), $\geq 7000$ Revolutions (WR3) (HD) (EN 13696)
- **Reaction to fire**: Class CF-r1 (EN 13501-1)
- **Formaldehyde emission**: Class E1 ($< 0.124 \text{ mg/m}^3$, EN 717-1), Class E0 ($< 0.025 \text{ mg/m}^3$) (HD)
- **Slip resistance**: USRV 22 (SP/PP), USRV 26 (HD) (CEN/TS 15676) / R 10 (DIN 51130)
- **Thermal conductivity**: 0.17 W/mK (SP/PP), 0.21 W/mK (HD) (EN 12667)
- **Thermal resistance**: 0.0588 m²K/W (SP/PP), 0.0471 m²K/W (HD) (EN 12667)
- **Use Class**: Class I (EN 335)
- **Critical radiant flux**: Class I (SP/PP), Class I (HD) (ASTM E 648)
- **CO₂ neutral**: LCA report TU Delft (ISO 14040/44) (www.moso.eu/lca)
- **Environmental Product Declaration**: EPD (EN 15804) (www.moso.eu/epd)
- **FSC® Products available with FSC® certification on request.**
- **Contribution BREEAM**: HEA 2, MAT 1, MAT 3 (FSC®), MAT 5 (HD)
- **Guarantee**: 30 years

1) Only for lacquered versions.
2) E0 Class is an unofficial formaldehyde emission class, but it is commonly used to indicate that the product has a very low emission, not detectable (n.d.) emission or is produced with No Added Formaldehyde (NAF) glues. E0 products automatically qualify for the official E1 Class according EN 717-1.