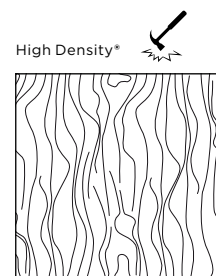
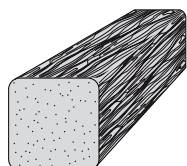


MOSO® Bamboo X-treme® Outdoor Beams

An unique heat-treatment process at 200°C and increased density (by compressing the bamboo strips) make the MOSO® Bamboo X-treme® material extremely durable and stable. This durability and stability, and the pre-profiled rounded edges, make MOSO® Bamboo X-treme® Beams ideal for use in outdoor furniture products. The elaborate manufacturing process provides MOSO® Bamboo X-treme® Outdoor Beams the highest durability class possible in the applicable EU norms. As with tropical hardwoods, the colour of the material changes under the influence of wind, rain, frost and sunshine (UV-light). This results in a typical weathered natural grey-tone. Regular cleaning and maintenance with a Lasur/oil protects the material against this weather related discolouration.



Product Code	Finish	Bevel (also on ends)	Dimensions (mm)
BO-DTHT2170-2-01	Sikkens Cetol	R = 4 mm	2000x115x40
BO-DTHT2171-2-01	Sikkens Cetol	R = 4 mm	2000x80x40
BO-DTHT2172-2-01	Sikkens Cetol	R = 4 mm	2000x60x40
BO-DTHT2173-2-01	Sikkens Cetol	R = 4 mm	2000x40x40
BO-DTHT2174-2-01	Sikkens Cetol	R = 4 mm	2000x55x40
BO-DTHT2175-2-01	Sikkens Cetol	R = 4 mm	2000x90x40

Other dimensions, bevel and finish can be produced custom made.

installation summary

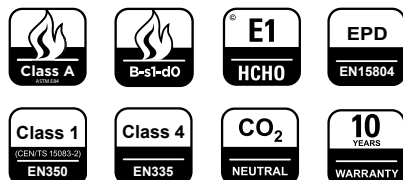
(full version available on www.moso-bamboo.com/x-treme)

- To allow natural shrink- and swell behaviour, install beams with a minimum of 4 mm distance.
- MOSO® Bamboo X-treme® beams must be mechanically fixed, using screws/bolts. The fixation instruction depends on the application.
- Use stainless steel A2 screws/bolts.
- For all our standard size beams, except 40x40 mm, we advise a minimum of 2 screws per fixation point. 40x40 mm beams can be fixed with 1 screw per fixation point.
- Horizontal installation:
 - The number of fixation points is depending on the application and applicable load.
 - In general, a 2 meter beam should at least have 3 fixation points (2 on the sides and 1 connection in the middle).
- Vertical installation:
 - Head sides should be angled (min. 15°) to improve water drainage.
 - Beams longer than 1 meter have to be fixed in at least 3 points.
- To avoid cracks caused by excessive water uptake, head sides must be treated with a head side sealer.

technical characteristics and certifications

- Density: +/- 1150 kg/m³
- Dimensional stability: length: + 0,1%; width + 0,9% (24 hours in water 20°C)
- Resistance to Indentation - Brinell Hardness: ≥ 9.5 kg/mm² (EN 1534)
- Reaction to fire: Class B-s1-d0¹⁾ (EN 13501-1)
- Flame spread index: Class A (ASTM E84)
- Thermal emittance: 0.81 (ASTM C1371)²⁾
- Solar Reflectance (SR): 0.32 (ASTM C1549)²⁾
- Solar Reflectance Index (SRI): Low 27, Medium 30, High 33 (ASTM E1980)²⁾
- Modulus of Elasticity: 13565 N/mm² (mean value - EN 408)
- Breaking strength: 54.4 N/mm² (characteristic value - EN 408)
- Biological durability: Class 1 (EN 350 / CEN/TS 15083-2), simulated graveyard test Class 1 (EN 350 / CEN/TS 15083-1)
- Effectiveness against Blue Stain: Class 0 (EN 152)
- Use Class: Class 4 (EN 335)
- 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 LEED BD+C - v4: MR 1, MR 2, MR 3 (FSC®), SS 7 v2009: MR 6, MR 7 (FSC®)
- Contribution BREEAM: MAT 1, MAT 3 (FSC®), MAT 5 (HD)
- Guarantee: 10 years

¹⁾ Tested on 18 mm thickness, without gaps between boards, with ventilation space behind boards.
²⁾ Tested on 3 years weathered MOSO® Bamboo X-treme®.



The mark of responsible forestry
FSC® C002063



breeam