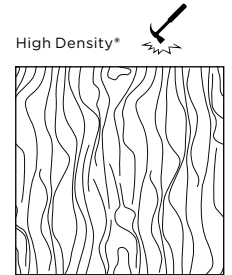


MOSO® Bamboo X-treme® Outdoor Beams

A unique heat-treatment process at 200°C and compression of the bamboo strips to increase the density 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 and facades. The elaborate manufacturing process provides MOSO® Bamboo X-treme® Outdoor Beams with 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 finish/sealer protects the material against this weather related discolouration.

BO-DTHT2171-2-01-FP
2000 x 80 x 40 mm

BO-DTHT2173-2-01-FP
2000 x 40 x 40 mm



Product Code	Finish	Edges (also on ends)	Dimensions (mm)
BO-DTHT2170-2-01-FP	Sikkens Cetol WF 771 lpe	R4	2000x115x40
BO-DTHT2175-2-01-FP	Sikkens Cetol WF 771 lpe	R4	2000x90x40
BO-DTHT2171-2-01-FP	Sikkens Cetol WF 771 lpe	R4	2000x80x40
BO-DTHT2172-2-01-FP	Sikkens Cetol WF 771 lpe	R4	2000x60x40
BO-DTHT2174-2-01-FP	Sikkens Cetol WF 771 lpe	R4	2000x55x40
BO-DTHT2173-2-01-FP	Sikkens Cetol WF 771 lpe	R4	2000x40x40

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

Installation summary

- 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 fixing method 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 fixing point. 40x40 mm beams can be fixed with 1 screw per fixing point.
- Horizontal installation:
 - The number of fixing points is depending on the application and applicable load.
 - In general, a 2 meter beam should at least have 3 fixing points (2 on the sides and 1 connection in the middle).
- Vertical installation:
 - End of the beam 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, the (cut) ends of the beams must be treated with a sealer (SEALER-05).
- When not applying Sikkens Cetol WF 771 (SATURATOR-SIKO2) finish regularly, the beams will acquire a grey colour tone and the typical bamboo wood grain structure will become less visible. More information about cleaning and maintenance:
 - www.moso-bamboo.com/x-treme/beams/cleaning-maintenance
- Store in a cool and dry place away from direct sunlight, and protected from weather influences, dirt and dust.
- Full version available at ► www.moso-bamboo.com/x-treme/beams

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 (average value - EN 1534)
- Reaction to fire: Class B-s1-d0¹⁾ (EN 13501-1), applicable as a material test
- 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: 17366 N/mm² (20 mm), 15986 N/mm² (40 mm) (mean value - EN 408)
- Bending strength: 84.4 N/mm² (20 mm), 57.3 N/mm² (40 mm) (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)
- Effectiveness against European Termites: Class M (EN 350 / EN 117 - Coptotermes gestroi)
- Durability against larvae: Durable (EN 350 / EN 49-2)
- Use Class: Class 4 (EN 335)
- Environmental Product Declaration - EPD (EN 15804) (www.moso-bamboo.com/epd)
- FSC®: With FSC® certification
- 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 panel material with 18 mm thickness, without gaps between boards, with ventilation space behind boards.

²⁾ Tested on 3 years weathered MOSO® Bamboo X-treme®.



breeam

Profile drawings available here ► www.moso-bamboo.com/outdoor-profile-drawings

