

# MOSO® Bamboo X-treme® Varibo Outdoor Cladding

## Closed profile

MOSO® Bamboo X-treme® Outdoor Cladding Closed profile is a solid board for exterior applications made from bamboo strips that have been compressed and thermally modified at 200°C. This unique Thermo-Density® process provides MOSO® Bamboo X-treme® with the highest durability class possible in the appropriate EU norms, increases the stability and density, and consequently the hardness. Furthermore, contrary to wood products, this material achieves fire resistance Class B-s1-d0<sup>1)</sup> (EN 13501-1) without impregnation with expensive and eco-damaging fire retardants. MOSO® Bamboo X-treme® Closed Cladding is developed to meet the highest fire requirements and is installed with a hidden screw. Like any tropical hardwood species, when exposed to outdoor conditions, Bamboo X-treme® will turn grey over time creating a very natural look.

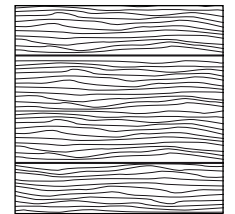
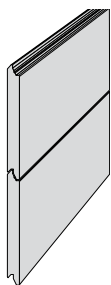
Closed profile

Closed profile 65 mm

Closed profile 137 mm

Closed Varibo

High Density\*



Product Code	Shape	Finish	Surface	End-matched	Length edges	End edges	Effective width (mm)*	Dimensions (mm)
BO-DTHT537	Closed	Unfinished	Flat	Yes	R1	2 mm x 45°	52,5	1850x65x18
BO-DTHT536	Closed	Unfinished	Flat	Yes	R1	2 mm x 45°	87,5	1850x100x18
BO-DTHT530	Closed	Unfinished	Flat	Yes	R1	2 mm x 45°	124,5	1850x137x18
BO-DTHT538	Closed	Unfinished	Flat	Yes	R1	2 mm x 45°	142,5	1850x155x18

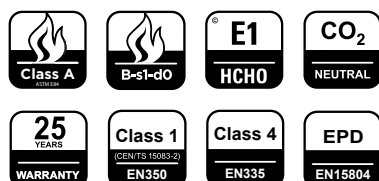
### installation

- MOSO guarantees the bamboo material and the mounting materials (screw) it supplies but does not guarantee the connection with other materials (such as sub frame joist/battens). It is the responsibility of the installer to make sure the used screw matches such materials during the full lifetime of the product.
- 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/cladding](http://www.moso-bamboo.com/x-treme/cladding)

### technical characteristics and certifications

- Density: +/- 1150 kg/m<sup>3</sup>
- Dimensional stability: length: + 0.1 %; width: + 0.9% (24 hours in water 20°C)
- Resistance to Indentation - Brinell Hardness: ≥ 9.5 kg/mm<sup>2</sup> (EN 1534)
- Reaction to fire: Class B-s1-d0 (EN 13501-1)<sup>1)</sup>
- Flame spread index: Class A (ASTM E84)
- Thermal emittance: 0.81 (ASTM C1371)<sup>2)</sup>
- Solar Reflectance (SR): 0.32 (ASTM C1549)<sup>2)</sup>
- Solar Reflectance Index (SRI): Low 27, Medium 30, High 33 (ASTM E1980)<sup>2)</sup>
- Modulus of Elasticity: 13565 N/mm<sup>2</sup> (mean value - EN 408)
- Bending strength: 54.4 N/mm<sup>2</sup> (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)
- CO<sub>2</sub> neutral: LCA report TU Delft (ISO 14040/44) ([www.moso-bamboo.com/lca](http://www.moso-bamboo.com/lca))
- Environmental Product Declaration - EPD (EN 15804) ([www.moso-bamboo.com/epd](http://www.moso-bamboo.com/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: 25 years

<sup>1)</sup> Tested on Bamboo X-treme® Closed profile 137x18 mm, with ventilation space behind the boards.  
<sup>2)</sup> Tested on 3 years weathered MOSO® Bamboo X-treme®.



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