

Characteristics of Woodee material

For Woodee deck boards is used:

- High quality 100% virgin HDPE
- PEFC certified wood powder
- High UV resistance color pigments
- No environmentally harm substances.

Utilizes recycling technology for 100% re-use of production waste, installation leftovers and EOL products. BMP Hellas S.A. is ISO 9001 certified.

Manufactured deck boards comply with EN 15534-4 and 15534-1 standards.

- with high durability against ageing and moisture
- with high dimensional stability
- with mechanical characteristics according to the requirements when installed with recommended joist mid-span

Basic physical and mechanical characteristics

Characteristics	Values
Density	1210 kg/m ³
Hardness according to Janka method	127MPa, very hard wood, ČSN 49 136
Flexural strength according to EN 15534-1 :2014,	21,7 MPa, EN 310
Swelling in water (28 days 20°C)	1.00% EN 15534-4, EN 317
Coefficient of thermal linear expansion	$2,9 \times 10^{-5} \text{ } ^\circ\text{C}^{-1}$
Self-ignition temperature °C	436 °C, ASTM D1929
Reaction to fire for decking profile EN 13501-1+A	D _i ,S1
Resistance to fungus N34/EN318	Very durable material, the aging test do not affect durability
Slipperiness – static on wet surface	Coefficient of friction 0,61 CSN 744507
Slipperiness – dynamic on wet surface	Coefficient of friction 0,51 CSN 744507

Recommended joist mid span for Premium deck board*

Angle between board and joist	90°	45°	30°
Mid span according with EN 15534-4, break force $\geq 3300\text{N}$	300mm	210mm	150mm
Mid span according with ASTM D6662-01 and ASTM D7032-04, break force $\geq 2500\text{N}$	400mm	280mm	200mm

*Premium Star 137x23mm deck board, minimum joist width 30mm.