

## Characteristics of WPC material manufactured by WPC WOODPLASTIC a.s.

For production of WPC deck boards according to Strandex (USA) license is used:

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

WPC WOODPLASTIC a.s. utilizes recycling technology for 100% re-use of production waste, installation leftovers and EOL products. WPC WOODPLASTIC a.s. is ISO 9001, ISO 14001, OHSAS 18001 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 <sup>3</sup>
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 x 10 <sup>-5</sup> °C <sup>-1</sup>
Self-ignition temperature °C	436 °C, ASTM D1929
Reaction to fire for decking profile EN 13501-1+A	D <sub>fl</sub> ,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 ≥ 3300N	300mm	210mm	150mm
Mid span according with ASTM D6662-01 and ASTM D7032-04, break force ≥ 2500N	400mm	280mm	200mm

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

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