

UPM ProFi® Deck Technical Specification

MATERIAL

UPM ProFi® is an environmentally innovative composite material that combines the best qualities of plastic and engineered fibers which fall as surplus by-products in self-adhesive label manufacture and processing. The material is virtually lignin free and contains no harmful chemicals.

STRUCTURE

PROFILE DIMENSIONS

Hollow composite profile made by extrusion technology.

	Standard mm	Standard Lengths m	Weight kg/m
Deck 150 Board	28 × 150	4.0	2.8
Rail Step	28 × 110 × 68	4.0	2.8
Cover Strip	12 × 66	4.0	0.7
Support Rail	40 × 60	4.0	1.5

Custom Lengths between 2.0 m & 6.0 m by request.

Actual length tolerances may vary from -2 mm upwards, subject to temperature. Width / thickness tolerance is +/- 1 mm.

PHYSICAL AND MECHANICAL PROPERTIES OF UPM PROFI DECK 150

Test method	Typical value
EN ISO 1183*	1.2
EN 310*	13
EN 477*	+23°C No break (>30) – 20°C No break (>15)
EN 1534*	28
EN 438-2	0.16
DIN 51130: 2014-02 CEN/TS 15676 DIN 51097: 1992-11	R10 >36 C (fine grooved) B (wide grooved)
EN 1533	2600 N
EN 13501-1	E
EN 117	Resistant
ISO 11359-2*	4.0 x 10 ⁻⁵
ISO 8301	0.24
EN 317*	< 2.5
EN 317*	<]
	EN ISO 1183* EN 310* EN 477* EN 477* EN 1534* EN 438-2 DIN 51130: 2014-02 CEN/TS 15676 DIN 51097: 1992-11 EN 1533 EN 13501-1 EN 13501-1 EN 117 ISO 11359-2* ISO 8301 EN 317*

* Based on CEN/TS 15534 wood plastic composites (WPC).

The values above are characteristic values from quality tests and therefore not for strength calculations in the serviceability state.



THERMAL EXPANSION: INDICATIVE CHANGES IN LENGTH AT DIFFERENT TEMPERATURES

As with all composite decks, UPM ProFi Deck 150 and its accessories made with UPM ProFi material will expand and contract with changes in temperature. The temperature change relates to the temperature of the UPM ProFi material, not the air temperature. In strong sunshine, darker coloured boards will reach higher temperatures than lighter coloured boards.

COLOUR WEATHERING AND MAINTENANCE

Unlike conventional wpc and timber decks, UPM ProFi Deck products are virtually lignin free, and will therefore not suffer from the usual "greying". Instead, over the years, the colours will fade slightly. (This weathering may be accelerated in high altitude locations and other areas with strong UV. Therefore UPM ProFi Deck 150 UV+ products are highly recommended.) Cleaning with a jet hose or a normal hose and brush will help to maintain the colour. Such cleaning should be carried out periodically to ensure that surface is free of dirt and debris and that the space under the deck remains clear and able to drain water away effectively. UPM's unique high friction closed surface is very resistant to moisture absorption and therefore stains. If cleaned immediately after a spill, water is usually enough to remove all traces. Otherwise warm water, a household detergent and gentle brushing will work in most cases. For more detailed cleaning and maintenance instructions, please visit www.upmprofi.com.

Illustration of typical weathering of a Stone Grey Deck in Central European climate.

Initial	3 years	6 years
	- / - 510	- , - 0.10

ENVIRONMENT As there is no other significant re-cycling process for the label surplus material, the manufacture of UPM ProFi Deck actually reduces land-fill and waste incineration. The only added plastic is clean polypropylene. Production waste and off-cuts can be recycled into new UPM ProFi Deck. The material can also be disposed of with normal household waste for example to be converted into energy.



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