



TECHNICAL DATASHEET

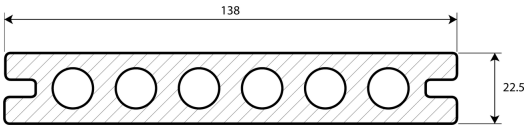
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# PuraShield

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DECKING BOARD • COMPOSITE

A composite decking board supplied in two widths and three lengths, with a round hollow chambered profile. This datasheet records its measured performance against the stated test standards.



| SECTION SIZE        | LENGTH            | TEXTURE             | SLIP CLASS |
|---------------------|-------------------|---------------------|------------|
| 22.5 × 138 / 210 mm | 3.0 / 4.0 / 5.0 m | Smooth / wood-grain | R10        |



— APPEARANCE

## Surface & colour

01

Reversible board with two usable faces, one smooth and one wood-grain. A 360° co-extruded outer layer keeps the colour through-pigmented and UV-stable to the tested exposure cycle.



— SUSTAINABILITY

## Environment

02

|                           |              |
|---------------------------|--------------|
| Service life              | > 20 years   |
| Recycled Material         | WPC          |
| End-of-life recyclability | 95 %         |
| Certification             | FSC® C226444 |



The mark of  
responsible forestry  
FSC™ C226444

Product information

| PROPERTY        | VALUE                                                     |
|-----------------|-----------------------------------------------------------|
| Section size    | 22.5 × 138 mm · 22.5 × 210 mm                             |
| Total thickness | 22.5 mm                                                   |
| Length options  | 3000 · 4000 · 5000 mm                                     |
| Profile         | Round hollow                                              |
| Composition     | 35% HDPE · 55% wood fibre · 10% additives                 |
| Colour options  | Cedar · Ipe · Teak · Light Grey · Dark Grey · Ebony Black |

Technical performance

| PROPERTY                         | RESULT                                    | STANDARD / CONDITION                 |
|----------------------------------|-------------------------------------------|--------------------------------------|
| Moisture content                 | 0.69 %                                    | EN 15534 / EN 322                    |
| Formaldehyde content             | Not detectable                            | EN 717-1                             |
| Electrostatic behaviour          | N/A                                       | EN 1815                              |
| Impact resistance (falling mass) | No cracking                               | EN 15534                             |
| Creep in bending                 | $\Delta S$ 3.96 mm / $\Delta S_r$ 2.68 mm | EN 15534 · 400 mm span, 1000 N, 24 h |
| Creep recovery                   | 82.4 % (24 h)                             | ASTM D7032                           |
| Slip resistance                  | R10 · ramp 17°                            | DIN EN 16165:2023-02, Annex B        |
| Abrasion resistance              | 35 mg (1000 r)                            | ASTM D4060-10                        |
| Scratch resistance               | Class 2                                   | ISO 4586-2                           |
| Brinell hardness                 | 68.7 MPa                                  | EN 15534                             |
| Modulus of elasticity            | 3512 MPa                                  | Manufacturer data                    |
| Bending strength                 | 29.6 MPa                                  | Manufacturer data                    |
| Density                          | 1240 kg/m <sup>3</sup>                    | Manufacturer data                    |
| Linear mass                      | 2.73 kg/m                                 | Manufacturer data                    |
| Tensile strength                 | N/A                                       | EN 319                               |
| Indentation resistance           | N/A                                       | EN 15534                             |

NOTE

$\Delta S$  is the change in deflection during loading;  $\Delta S_r$  is the residual deflection 24 h after the load is removed. Creep tested over a 400 mm span at 1000 N for 24 h.

Thermal properties

| PROPERTY                   | RESULT                                              | STANDARD / CONDITION |
|----------------------------|-----------------------------------------------------|----------------------|
| Water absorption (boiling) | 0.51 % (24 h) / 1.67 % (72 h)                       | EN 15534             |
| Linear thermal expansion   | $3.78 \times 10^{-5} \text{ }^{\circ}\text{C}^{-1}$ | ASTM D6341           |
| Linear thermal expansion   | $4.01 \times 10^{-5} \text{ }^{\circ}\text{C}^{-1}$ | EN 15534             |
| Thermal conductivity       | 0.197 W/(m·K)                                       | Manufacturer data    |

Durability & weathering

| PROPERTY                    | RESULT                                            | STANDARD / CONDITION                    |
|-----------------------------|---------------------------------------------------|-----------------------------------------|
| Accelerated ageing (UV)     | $\Delta E^* = 1.67$                               | ASTM G154 · total colour change, 2000 h |
| Swelling / water absorption | Swell 0.15 % t, 0.02 % w, 0.02 % l · W.abs 0.11 % | EN 15534 · 24 h immersion               |
| Swelling / water absorption | Swell 1.26 % t, 0.35 % w, 0.23 % l · W.abs 1.02 % | EN 15534 · 28-day immersion             |
| Mould resistance (cyclic)   | MOR 26.68 MPa → 23.95 MPa                         | EN 15534 · before / after exposure      |
| Salt-spray resistance       | $\Delta E = 1.21$                                 | EN 15534 / ISO 9227                     |

NOTE

t = thickness, w = width, l = length. MOR = modulus of rupture.  $\Delta E$  and  $\Delta E^*$  denote total colour change.

# **PuraComposite™**

## SUSTAINABLE SOLUTIONS

### OUR OFFICES

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