TECHNICAL DATASHEET

Puraboard

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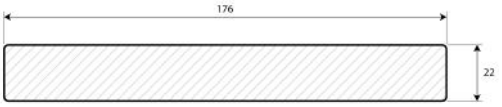
DECKING BOARD · POLYURETHANE FOAM

A polyurethane-foam decking board for exterior and pedestrian-use surfaces. This datasheet records its measured performance against EN and ISO test methods.



BOARD SIZE	MATERIAL	WOOD CONTENT	REACTION TO FIRE
176 × 22 mm	**Polyurethane foam**	**0%**	**Dfl-s2**

01

APPEARANCE

Surface & colour

Embossed wood-grain surface finish, available in five colours. Colour is UV-stable for exterior use.

CASHMERE

SANDSTONE

GOLDEN TEAK

CHESTNUT

CHARCOAL BLACK

02

SUSTAINABILITY

Environment

Service life	> 20 years
Recyclability	Recyclable
Wood content	0%
Material	Polyurethane foam

SPECIFICATION

03

Product information

PROPERTY	VALUE
Board dimensions	176 mm × 22 mm
Product type	Polyurethane-foam outdoor decking board
Intended use	Exterior decking & pedestrian deck surfaces
Surface hardness	Shore D 28
Density	0.868 g/cm³
Colour options	Cashmere · Sandstone · Golden Teak · Chestnut · Charcoal Black

MECHANICAL PROPERTIES

Mechanical

04

PROPERTY	RESULT	STANDARD / CONDITION
Tensile strength	97.3 MPa	EN ISO 527-2
Bending strength	53.2 to 62.4 MPa	EN 15534-1 · 300 / 400 mm span
Modulus of elasticity	1943 to 2447 MPa	EN 15534-1 · bending
Charpy impact strength	77.25 kJ/m²	EN ISO 179-1 · partial break
Falling-mass impact	No crack · 0.13 mm residual	EN 15534 · 1 kg / 700 mm, 200 mm span
Screw withdrawal capacity	25.0 N/mm²	EN 15534
Screw pull-through	84.1 N/mm²	EN 15534

NOTE

Laboratory bending results describe the tested samples and must not be used on their own to set project support centres, spans or structural loads.

PHYSICAL & THERMAL

05

Physical & fire

PROPERTY	RESULT	STANDARD / CONDITION
Density	0.868 g/cm³	ISO 1183-1
Linear thermal expansion	38.7 × 10^{-6} K^{-1}	ISO 11359-2 · −20 to +80 °C
Surface hardness	Shore D 28	ISO 868
Reaction to fire	Dfl-s2	EN 13501-1
Critical radiant flux	4.7 (transverse) / 3.2 (longitudinal) kW/m²	EN ISO 9239-1
Smoke production	1220 %·min	EN ISO 9239-1
Flame spread (15 s)	≤ 150 mm in 20 s · Pass	EN ISO 11925-2

DURABILITY & MOISTURE

06

Durability & moisture

PROPERTY	RESULT	STANDARD / CONDITION
Water absorption	2.3 % mean / 2.4 % max	EN 15534 / EN 317 · 28-day immersion
Thickness swelling	0.22 % mean / 0.33 % max	EN 15534 · 28-day immersion
Moisture-cycle strength loss	11.5 to 13.3 %	EN 15534 · immersion / freeze / dry
Freeze-thaw bond retention	94 %	after 5 cycles, −35 / +60 °C
Surface-to-core bond strength	2.05 MPa	EN 15534 · after freeze-thaw

NOTE

Freeze-thaw and moisture results apply to the tested product configuration.

PuraComposite™

SUSTAINABLE SOLUTIONS

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