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BPC (Bamboo-Plastic Composite) DECKING BOARDS

FEATURES AND CHARACTERISTICS

There are several main types of BPC decking boards: mono-extruded, co-extruded, and the latest technologies such as APEX. Below are the key differences and characteristics of each variant:

MONO-EXTRUDED BPC DECKING BOARDS

are produced in a single extrusion process. Bamboo fibers and plastic are blended and pressed through a mold to create the final shape of the board.

FEATURES

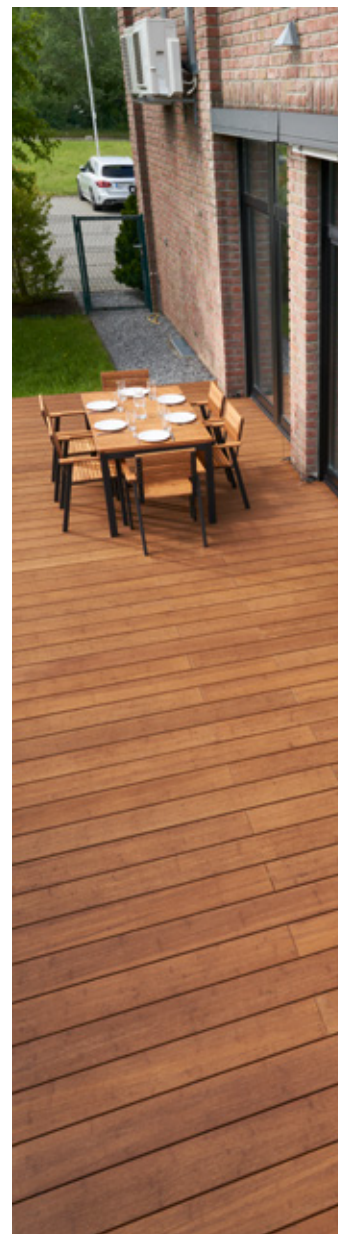
- **Simple Structure:** The entire board consists of a uniform material mix, ensuring a homogeneous structure and color.
- **Low Maintenance:** These boards only require occasional cleaning to remove dirt and debris.
- **Weather Resistance:** They offer good protection against weather elements.
- **Durability:** Mono-extruded boards are robust and resistant to mechanical stress.

CO-EXTRUDED BPC DECKING BOARDS

are manufactured using a dual extrusion process. A core made of bamboo and plastic fibers is coated with an additional protective layer.

FEATURES

- **Protective Layer:** The outer layer enhances resistance to scratches, stains, and UV rays.
- **Aesthetics:** Co-extruded boards offer a higher-end and more natural look.
- **Ease of Maintenance:** These boards are even more scratch-resistant than mono-extruded BPC boards.
- **Durability:** The added protection makes these boards especially long-lasting.



APEX DECKING BOARDS

are based on a PVC composite material reinforced with bamboo fibers. This construction is designed for high durability, combining stability with an appealing appearance. The APEX product line represents the latest in composite technology, offering higher quality, reduced maintenance, and a more eco-friendly composition.

This co-extruded composite line combines a lightweight PVC core with bamboo fibers, encased in an acrylic polymer protective layer. This enhances both weather resistance and surface texture, resulting in a highly realistic wood look and excellent abrasion resistance.

FEATURES

- **Advanced Acrylic Polymer Coating:** The innovative dual-layer polymer coating offers unique texture, visual appeal and a significantly improved slip resistance.
- **Core Material – Bamboo and Cellular PVC:** The foamed mineral-polymer core is lightweight and provides improved fire resistance.
- **Recyclable Product:** The production process generates no byproducts and is largely powered by solar energy. No hazardous chemicals are needed for cleaning and maintenance.



EXPERT

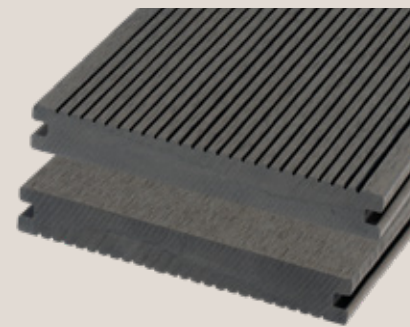
Solid BPC Outdoor Decking



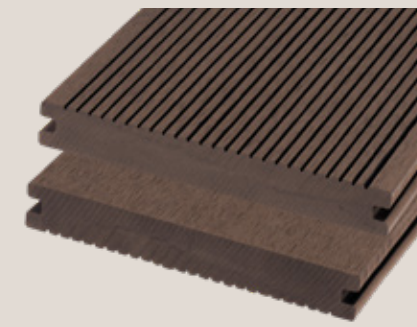
Mono-extruded BPC decking boards represent the first generation of composite materials for outdoor decking. Their primary components are bamboo, plastic, and various additives that ensure key technical properties such as UV resistance, product stability, and durability.

The surfaces are treated in different ways to offer optimal visual appeal and tactile quality. All BPC decking boards feature a reversible profile, allowing for installation on either side.

The Colors



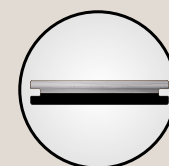
Silver Cedar



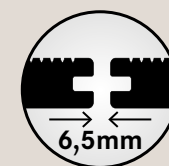
Mahagoni

Features:

- Can be installed on both sides thanks to the reversible profile
- Slip-resistant due to grooved/smooth surfaces
- Solid decking profile
- Easy to work with
- Available in two lengths (3.0 and 4.0 m)



2 Sided use
wood/smooth



Micro bevel

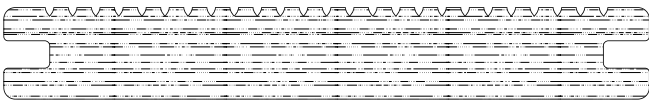


Anti-slip



Easy to clean

EXPERT



Profile dimensions Length 3 and 4 m
 Weight 3,66 kg/m
 Dimensions 20 x 140 mm

Material Properties	FEATURE	UNIT	REFERENCE VALUE
	Density	to/m³	1,37

Flexural test based on EN ISO-899-2	FEATURE	UNIT	REFERENCE VALUE
	Deflection under 500 N load at 400 mm span	mm	2,72
	Deflection under 500 N (after 9 climate cycles)	mm	2,62
	Maximum force in N	N	2670
	Flexural strength	N/mm²	30,12

Expansion after water absorption	FEATURE	UNIT	REFERENCE VALUE
	Volume	%	1,55
	Longitudinal direction	%	0,09
	Width	%	0,18
	Thickness	%	1,48

Thermal expansion coefficient	FEATURE	UNIT	REFERENCE VALUE
	Thermal expansion coefficient	10⁻²/K	3,44 x 10⁻³ °C⁻¹ m/mC°

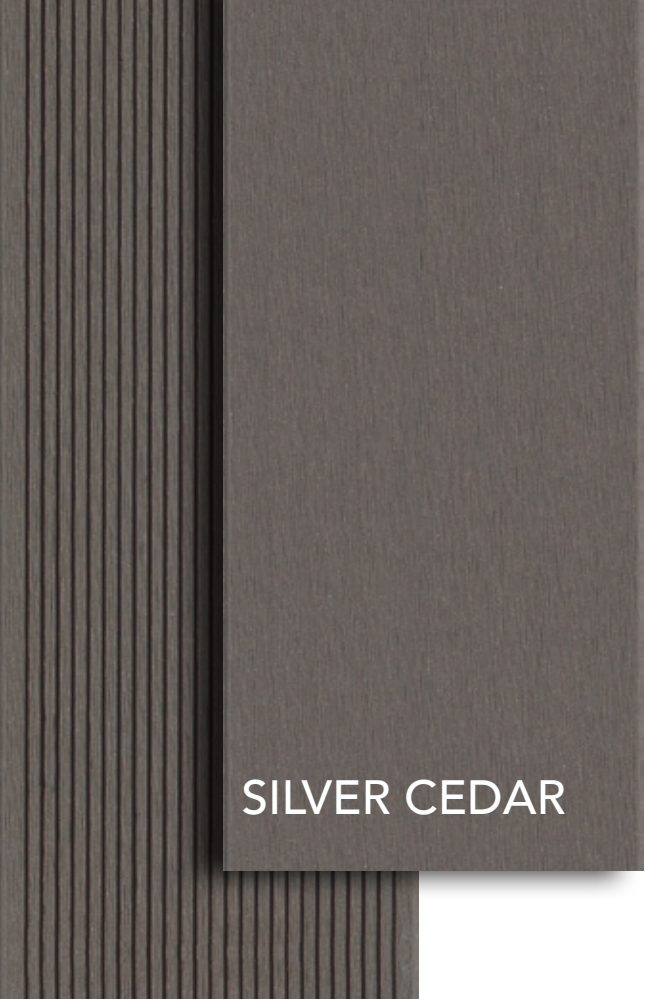
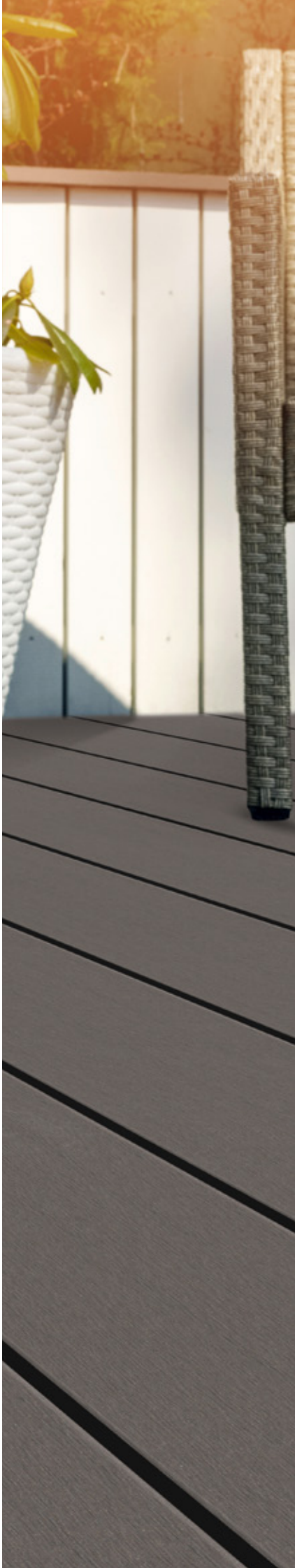
Fire protection class B2 normally flammable
according to EN 13501-1:2007

Tolerance range with 400 mm spacing	FEATURE	UNIT	REFERENCE VALUE
	Width	mm	+/- 1
	Thickness	mm	+/- 1
	Length	mm	+10mm/-0mm bei 20 °C

Thermal behavior Like many other composite profiles, mono-extruded BPC decking boards react to thermal influences by expanding and contracting.

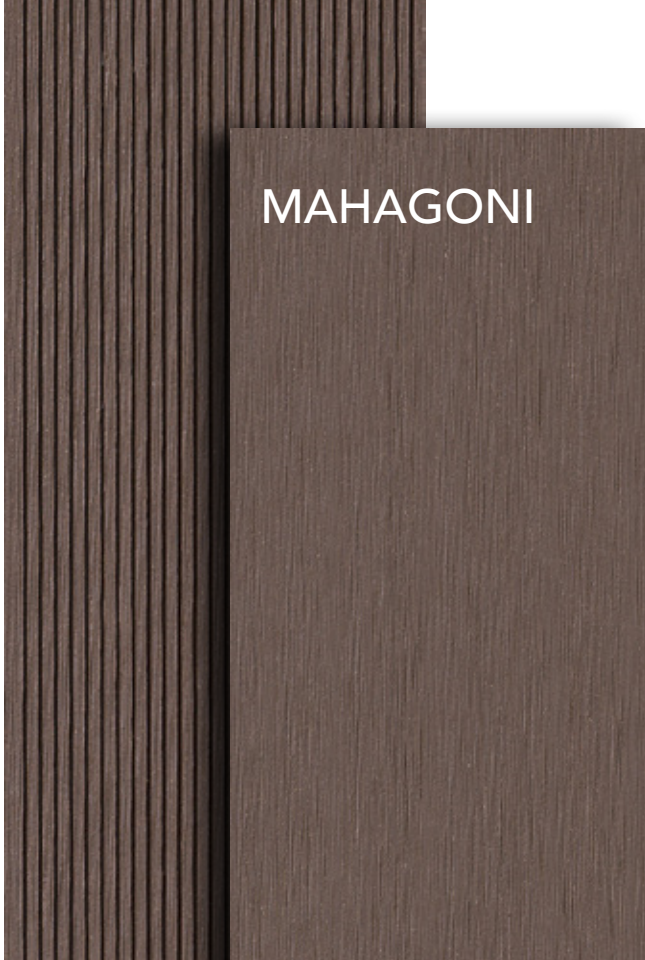
Weathering and
maintenance Like nearly all mono-extruded WPC and wood products, our BPC decking boards are subject to slight color changes due to their lignin content. However, the use of high-quality UV blockers reduces this effect to a minimum. For regular cleaning, use a broom to remove coarse dirt and water with standard household cleaning agents.

TECHNICAL DATA



ST01BU1 011 3000
ST01BU1 011 4000

ST01BU1 003 3000
ST01BU1 003 4000



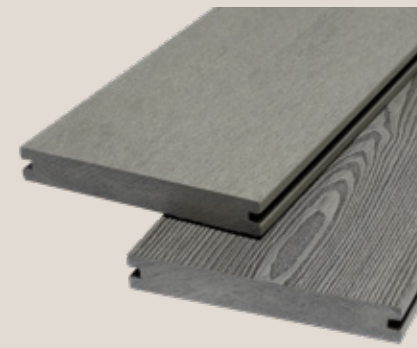
BI-COLOR

Solid BPC Outdoor Decking

Bi-Color BPC decking boards are an advanced development of the first generation of composite materials for decking. By using various color additives with different melting points, the Bi-Color design achieves its attractive, multi-toned appearance.

The main components are bamboo, plastic, and selected additives that ensure key technical properties such as UV resistance, product stability, and durability. The surfaces are treated in various ways to provide optimal visual appeal and a pleasant tactile feel. All BPC decking boards feature a reversible profile and can be installed on either side.

The Colors



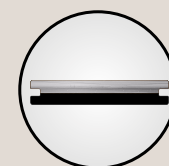
Silvergum



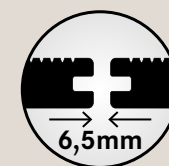
Desert Sand

Features:

- Can be installed on both sides thanks to the reversible profile
- Special surfaces: smooth / wood texture
- Solid decking profile
- Easy to work with
- Available in 4,0 m



2 Sided use
wood/smooth



Micro bevel

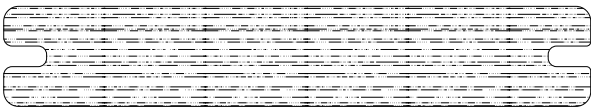


Anti-slip



Easy to clean

BI-COLOUR



Profile dimensions Length 4 m
 Weight 3,75 kg/m
 Dimensions 20 x 140 mm

Material Properties

FEATURE	UNIT	REFERENCE VALUE	REFERENCE VALUE XL
Density	to/m³	1,37	1,35

Flexural test
based on
EN ISO-899-2

FEATURE	UNIT	REFERENCE VALUE	REFERENCE VALUE XL
Deflection under 500 N load at 400 mm span	mm	0,8	0,8
Deflection under 500 N (after 9 climate cycles)	mm	0,87	0,87
Maximum force in N	N	3792	4559
Flexural strength	N/mm²	40,82	31,18

Expansion after
water absorption

FEATURE	UNIT	REFERENCE VALUE	REFERENCE VALUE XL
Volume	%	2,21	1,49
Longitudinal direction	%	0,17	0,06
Width	%	0,18	0,12
Thickness	%	1,51	1,11

Thermal
expansion
coefficient

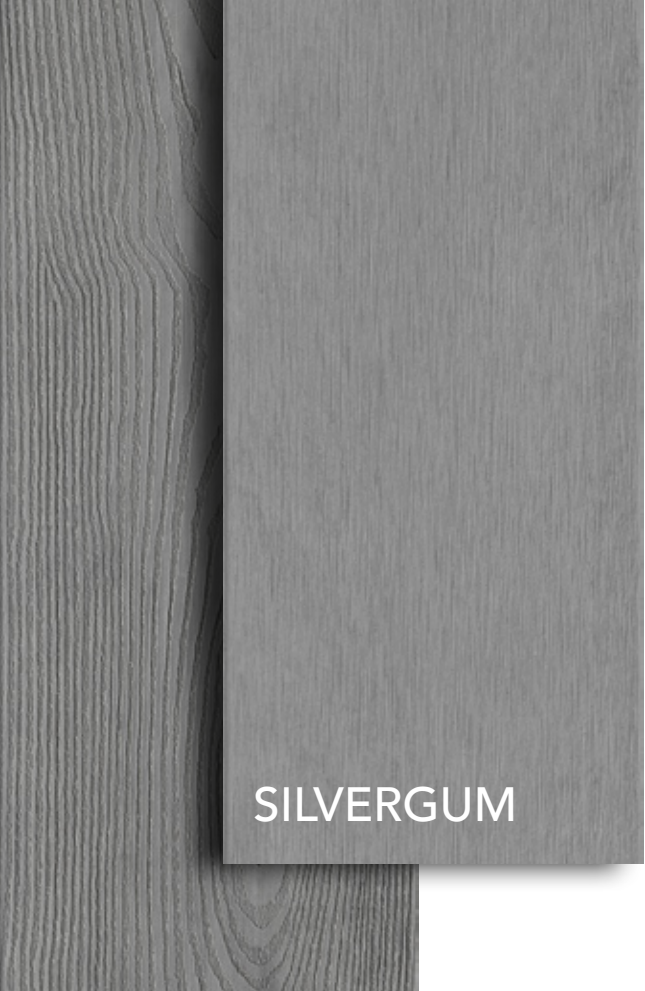
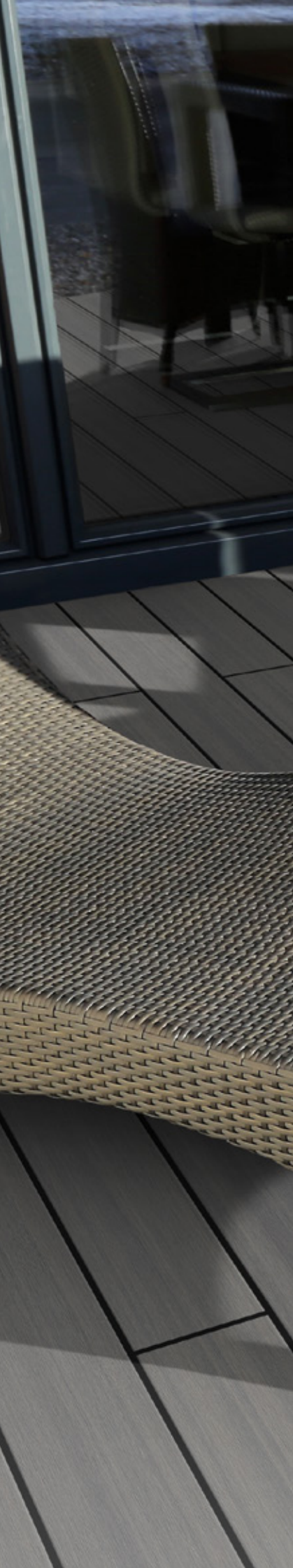
Fire protection class B2 normally flammable
according to EN 13501-1:2007

Tolerance range
with 400 mm spacing

Thermal behavior Like many other composite profiles, co-extruded BPC decking boards expand and contract in response to thermal influences.

Weathering and
maintenance Like nearly all mono-extruded WPC and wood products, our BPC decking boards are subject to some color change due to their lignin content. However, the use of high-quality UV blockers minimizes this effect. In addition, the multi-tone coloring creates a subtle “used look,” making any color changes less noticeable over time. For regular cleaning, a broom can be used to remove coarse dirt, along with water and standard household cleaning agents.

TECHNICAL DATA



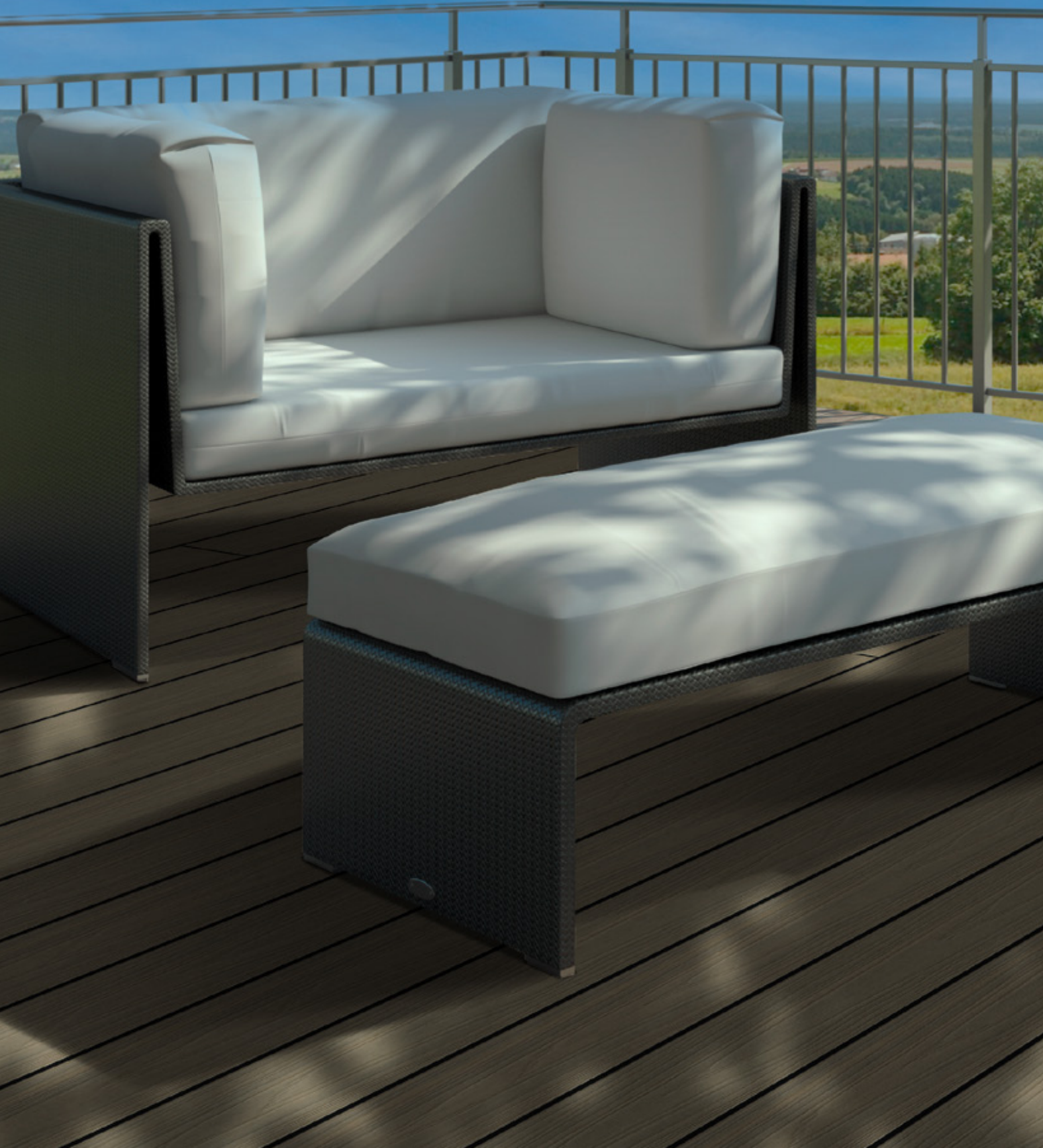
ST01CAAB C69 4000

ST01CAA C72 4000



ECO CAP - S

Solid BPC Outdoor Decking



Co-extruded BPC decking boards are encased in a protective polymer layer. Alongside mono-extruded BPC products, they represent the second generation of composite materials for outdoor decking. The main components are bamboo, plastic, and various additives that ensure key technical properties such as UV resistance, product stability, and durability. The surface

features a brushed polymer coating, offering excellent visual appeal and a pleasant tactile experience. Each side of the board has a different surface profile, allowing for versatile use.

The Colors



Hazelnut



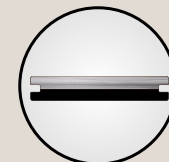
Summer Oak



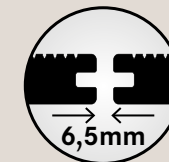
Medium Grey

Features:

- Double-sided installation possible thanks to the reversible profile
- Special surfaces: smooth / wood texture
- Solid decking profile
- Easy to work with
- Available in 4,0 m



2 Sided use
wood/smooth



Micro bevel

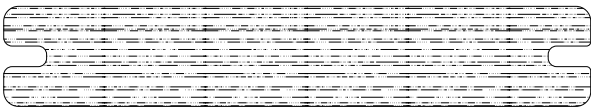


Anti-slip



Easy to clean

ECO CAP-S



Profile dimensions Length 4 m
 Weight 3,36 kg/m
 Dimensions 20 x 140 mm

Material Properties	FEATURE	UNIT	REFERENCE VALUE
	Density	to/m³	1,27

Flexural test based on EN ISO-899-2	FEATURE	UNIT	REFERENCE VALUE
	Deflection under 500 N load at 400 mm span	mm	2,21
	Deflection under 500 N (after 9 climate cycles)	mm	3,67
	Maximum force in N	N	2246
	Flexural strength	N/mm²	26,49

Expansion after water absorption	FEATURE	UNIT	REFERENCE VALUE
	Volume	%	1,32
	Longitudinal direction	%	0,05
	Width	%	0,21
	Thickness	%	0,85

Thermal expansion coefficient	FEATURE	UNIT	REFERENCE VALUE
	Thermal expansion coefficient	10⁻⁴/K	3,74 x 10⁻³ °C⁻¹ m/mC°

Fire protection class B2 normally flammable
according to EN 13501-1:2007

Tollerance range with 400 mm spacing	FEATURE	UNIT	REFERENCE VALUE
	Width	mm	+/- 1
	Thickness	mm	+/- 1
	Length	mm	+10mm/-0mm bei 20 °C

Thermal behavior Like many other composite profiles, co-extruded BPC decking boards expand and contract in response to temperature changes.

Weathering and
maintenance Unlike products such as mono-extruded WPC or wood, the outer layer of co-extruded decking boards contains no lignin, making it highly color-stable over time. Naturally, even with this stability, a direct comparison between new and aged boards may show a slight difference in color intensity. Co-extruded BPC decking boards feature a high-density surface that is particularly low-maintenance and resistant to external influences. Surface dirt can be easily removed using standard household cleaning agents and water.

TECHNICAL DATA



HAZELNUT

STGJ01X C51B 4000



SUMMER OAK

STGJ01X C59B 4000

STGJ01X C71B 4000



MEDIUM GREY

APEX GFR

APEX Solid BPC Outdoor Decking



APEX decking boards represent a new generation of outdoor decking. Alongside BPC and co-extruded BPC, they form the third generation of composite materials for decking applications. The main components are plastic, bamboo, and various additives that ensure essential technical properties such as UV resistance, product stability, and long service life.

APEX offers a range of enhanced features. The surface is made of high-quality acrylate, providing excellent visual appeal and a premium tactile feel. The product is approximately 25% lighter than traditional BPC boards and demonstrates improved fire resistance.

The Colors



Misty Grey



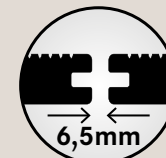
Carbonised Osage



Garapa

Features:

- Special wood texture
- Solid decking profile
- Easy to work with
- Two lengths available (3,0 and 4,0 m)



Micro bevel

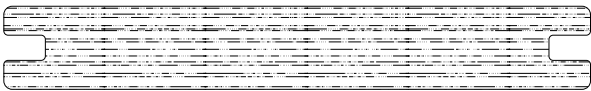


Anti-slip



Easy to clean

APEX GFR



Profile dimensions Length 3 and 4 m
 Weight 2,191 kg/m
 Dimensions 21 x 140 mm

Material Properties

FEATURE	UNIT	REFERENCE VALUE
Density	to/m³	0,876
Scratch resistance	N	5
Slip resistance	Klasse	R12

Flexural test
based on
EN ISO-899-2

FEATURE	UNIT	REFERENCE VALUE
Deflection under 500 N load at 400 mm span	mm	2,84
Deflection under 500 N (after 9 climate cycles)	mm	2,62
Maximum force in N	N	4937
Flexural strength	N/mm²	48,41

Expansion after
water absorption

FEATURE	UNIT	REFERENCE VALUE
Volume	%	0,41
Longitudinal direction	%	0,01
Width	%	0,01
Thickness	%	0,11

Thermal
expansion
coefficient

FEATURE	UNIT	REFERENCE VALUE
Thermal expansion coefficient	10 ⁻⁶ /K	2,37 x 10 ⁻³ °C ⁻¹ m/mC°

Fire protection class

Bfl-s1 (according to EN 13501-1:2007)

Tolerance range
with 400 mm spacing

FEATURE	UNIT	REFERENCE VALUE
Width	mm	+/- 1
Thickness	mm	+/- 1
Length	mm	+10mm/-0mm at 20 °C

Thermal behavior

Like many other composite products, APEX decking boards expand and contract in response to temperature changes. However, compared to traditional WPC, APEX has an exceptionally low thermal conductivity.
Thermal expansion: 0.04 mm per 1°C change over 1 meter of length

Weathering and
maintenance

Unlike products such as WPC or wood, APEX contains no lignin and is therefore highly color-stable over the long term, with no tendency to grey. Naturally, even in this case, a direct comparison between new and aged boards may show a slight difference in color intensity. The APEX product features a high-density surface that is particularly low-maintenance and highly resistant to external environmental influences. If surface dirt appears, it can easily be cleaned using standard household cleaning agents and water.

TECHNICAL DATA



MISTY GREY

ZQ132 CG023 3000
ZQ132 CG023 4000



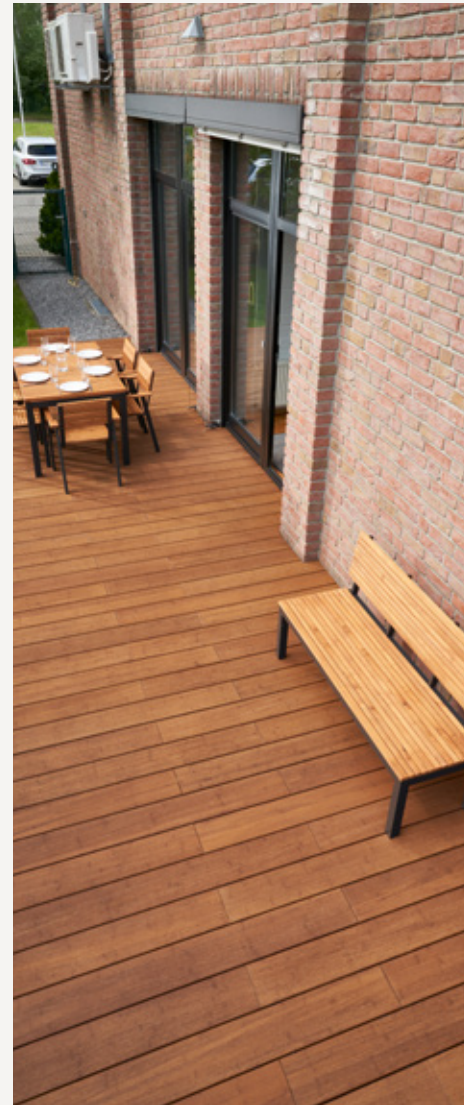
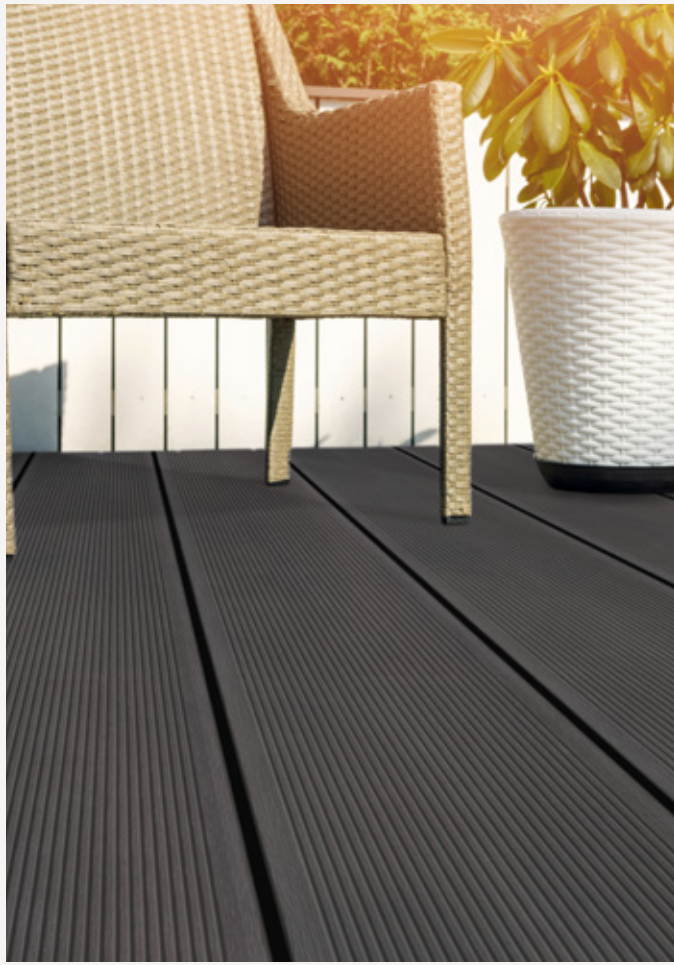
CARBONISED OSAGE

ZQ132 CD019 3000
ZQ132 CD019 4000

ZQ132 CL014 3000
ZQ132 CL014 4000



GARAPA



VAIBE

Lodewijk de Raetlaan 39-1
8870 Izegem
Belgium

sales@vaibe.eu
+32 51 32 26 29
www.vaibe.eu

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