

Version V1.4

FIBRE CEMENT DECKING



CEMBLOC.

BLOCDECK[®] - VL NON COMBUSTIBLE DECKING

Durable, low-maintenance fibre cement decking for external applications



Designed as a direct, modern fibre-cement decking solution for demanding applications.

External Decking Applications.

Suitable for a wide range of residential and commercial external decking environments.



Residential Terrace



Balcony & Rooftop Applications

Product Overview.

Fire-resistant decking designed for long-term external performance.

BLOCDECK is not only durable but also low maintenance, retaining its A1 fire rating over time (when uncoloured) A2 when coloured.. Its pre-primed surface repels water, enhancing its waterproofing capabilities, making it an excellent choice for balconies, terraces, and rooftops in medium to high-rise residential projects. It serves as a robust alternative to traditional wood decking, ensuring fire resistance in case of ignition attempts.

The natural aesthetic of BLOCDECK complements various settings, whether in a garden, indoor space, or outdoor area, guaranteeing a fire-safe environment while combining style and safety for the long term. With BLOCDECK, there's no need for yearly sanding and staining, allowing you to focus on more important matters. The planks are thoughtfully designed with or without face grooves for a classic look and side grooves for easy installation. BLOCDECK also offers a range of colour options to match your preferences.



BLOCDECK VL Arctic

BLOCDECK VL.

The mineral fiber composite decking, patented with an impressive fire rating, establishes the benchmark for safety, longevity, and visual appeal.

Cembloc proudly presents its non-combustible decking, known as BLOCDECK, which boasts an impressive fire rating, compliant with BS EN:13501-1 standards. This decking option features a substantial 25mm thickness and a textured surface that authentically replicates the appearance of timber decking, available with or without face groove options. Unlike the typical plastic sheen associated with composite PVC decking or the noise often linked to aluminum decking, BLOCDECK offers a more inviting, natural feel and exceptional non-slip properties

BLOCDECK excels as a versatile substitute for timber floor decking, seamlessly blending the beauty of natural wood texture within a sturdy fibre cement matrix. Its suitability extends to both interior and exterior areas, including staircase applications

BLOCDECK VL - Linear Lines, Creative Beauty.



BLOCDECK VL Arctic



BLOCDECK VL Fennec



Colour Options.

The BLOCDECK range is available in three (3) attractive colours. Arctic, Fennec and Falcon (using iron oxide pigment)

Arctic CD1001	Fennec CD1002	Falcon CD1003
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Description	Attributes
Board	Patented mineral fibre composite
Finish	Through coloured, wood grain texture
Span	450mm
Thickness	25mm
Length	2440mm
Width	150 & 200mm
Suitable For	Terraces, podiums, and waterproofed / inset / balconies, rooftops. Pedestrian walkways, pool surrounds, decks, and pontoons. General hardscaping, high-rise residential balconies.



Performance Overview.

Water Repellency	Yes
Life Expectancy	25-30 Years
Maintenance Apply BLOCDECK Primer	4-7 Years
Maximum Span	450mm Centres
Bending Strength	> 16 MPA
Loading Capacity	> 6KN
Water Absorption	≤30%
Thickness	25mm
Width	+/-2mm
Length	+/-3mm
Weight Approx	41.5kg/m2
Thermal Conductivity	≤0.25 W/Mk
Density	1600 kg/m³ (± 50kg)
Combustibility	Non-Combustible
Reaction To Fire	A1 - (EN 13501-1) As tested without colour A2 - (EN 13501-1) As tested with colour

Span and Load Capabilities.

Component	Span and Loading	Deflection
BLOCDECK	450mm	L/200
BLOCDECK VL		L/233

Areas Of Use.

- Domestic gardens and patios.
 - Commercial walkways and zones.
 - High rise accommodation.
 - Government properties.
 - Internal breakout zones.
 - High-rise balconies.
- Raised terrace.
 - Replacement of traditional style timber and PVC decks.
 - Holiday lodges and cabins.
 - Wet areas, marinas and beach fronts.
 - Partially or completely submerged areas.
 - Surrounding pools.

Slip Resistance Test Results.

Pendulum Testing to BS EN 16165:2021 (Annex C)

Conditioning

The sample was conditioned for a minimum of 24 hours prior to testing at an ambient air temperature of 21–25°C and 40–60% relative humidity, in accordance with ISO 291 Class 2 conditions for non-tropical countries.

Test Method

Testing was performed in accordance with BS EN 16165:2021, Annex C, using a calibrated pendulum slip tester fitted with Slider 57.

Testing was carried out at one location, in three directions, under both wet and dry conditions.

Slip Potential Classification	Pendulum Test Value (PTV)
High Slip Potential	0 – 24
Moderate Slip Potential	25 – 35
Low Slip Potential	36 +

Dry Test Results - Low Slip Potential

Surface Temperature 21.0°C					Air Temperature 21.5°C				
Test Direction	PTV 1	PTV 2	PTV 3	PTV 4	PTV 5	PTV 6	PTV 7	PTV 8	Median PTV
A	56	56	56	56	56	56	56	56	56
B	58	58	58	58	58	58	58	58	58
C	67	67	67	67	67	68	68	68	68

Wet Test Results - Low Slip Potential

Surface Temperature 21.0°C					Air Temperature 21.5°C				
Test Direction	PTV 1	PTV 2	PTV 3	PTV 4	PTV 5	PTV 6	PTV 7	PTV 8	Median PTV
A	43	43	43	42	41	40	40	40	40
B	44	44	42	42	42	42	42	42	42
C	56	56	55	55	55	55	53	54	55



Test Directions

- A – Along the grain
- B – Diagonal to the grain
- C – Across the grain

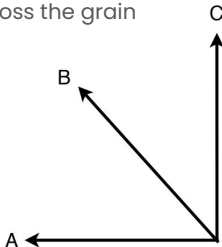


Figure 1 – Orientation of pendulum test directions A, B and C

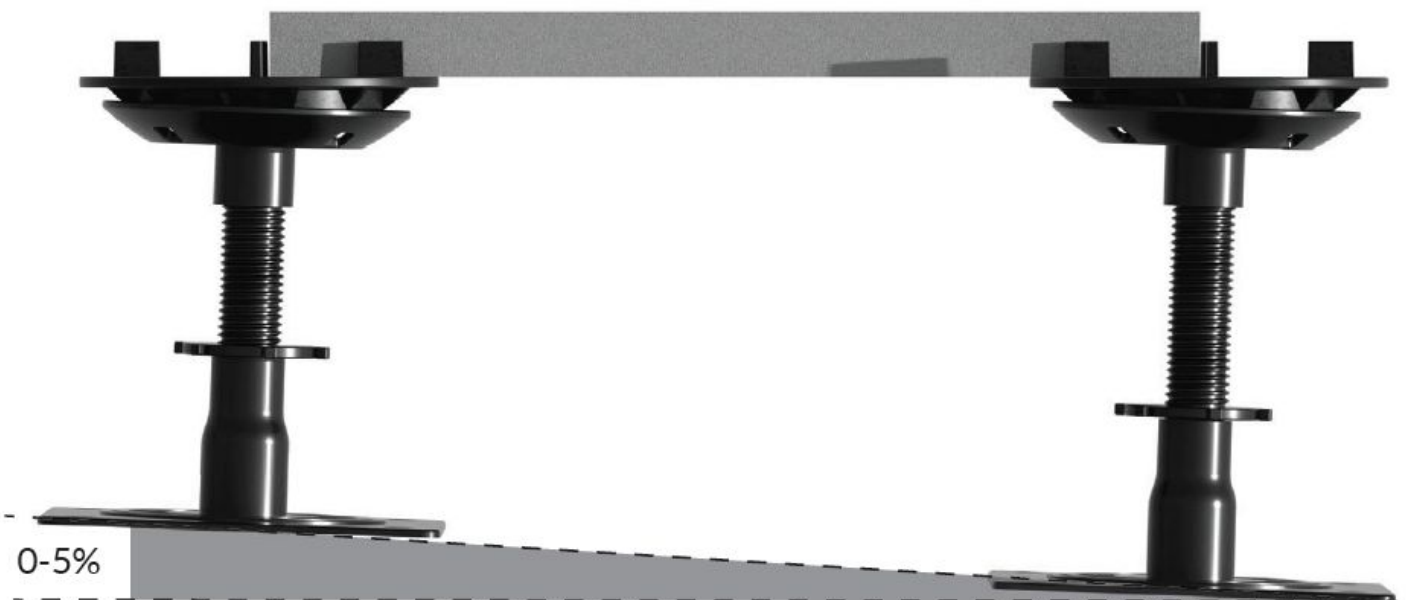
CB.

CEMRISE A105 Pedestal System.

Adjustable pedestal support from 33mm to 650mm, with integrated slope correction up to 5%.



CEMRISE A105 pedestals provide adjustable support heights from 33mm to 650mm.



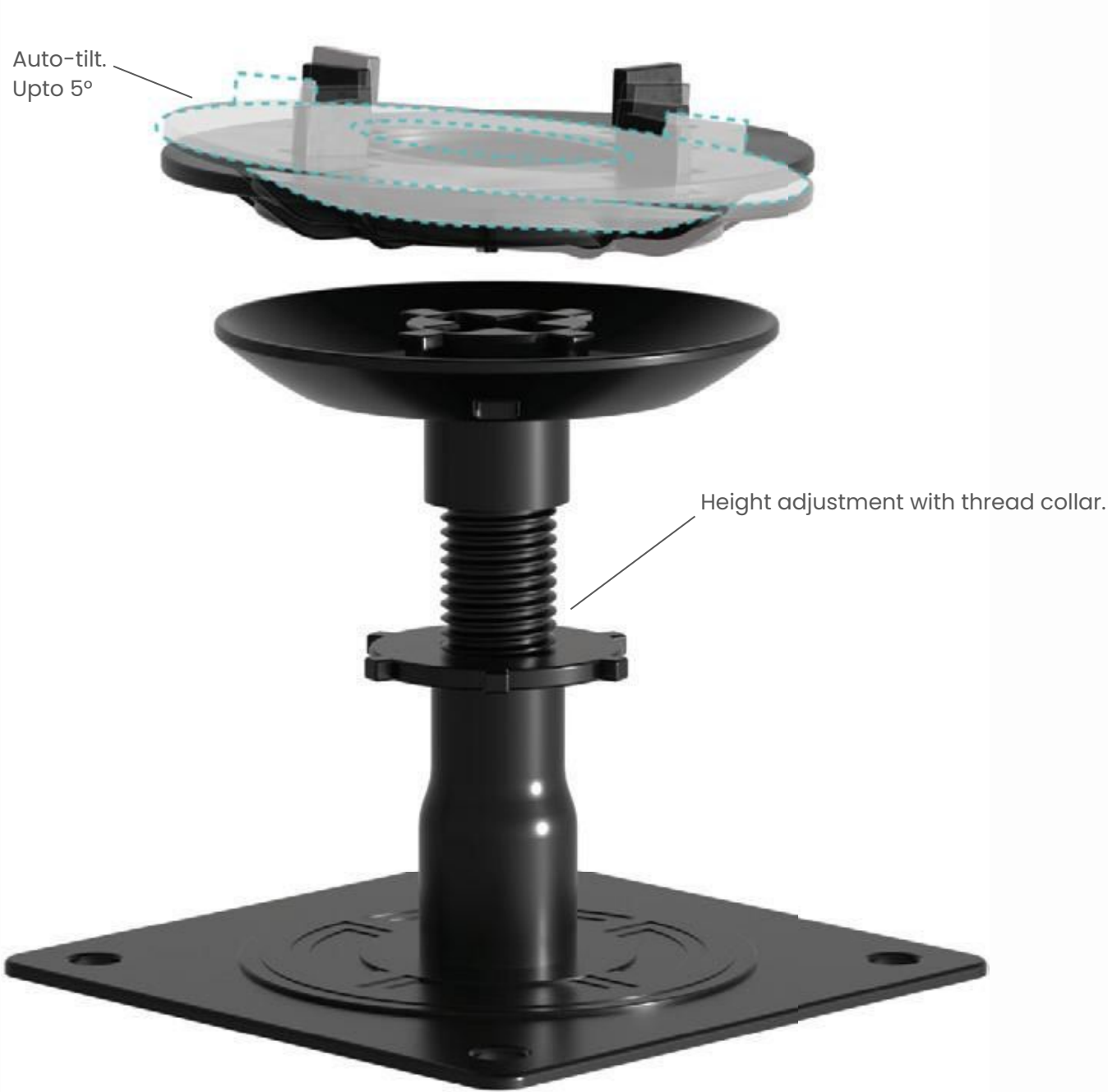
Integrated slope correction allows adjustment of up to 5% to accommodate uneven or inclined substrates.

CEMRISE A105 Adjustable Pedestal Support System.

Adjustable support for stable, level and precisely aligned decking.

Installation Spacing(s)	PCS/ SQM
300 x 300 mm	11
400 x 400 mm	6
450 x 450 mm	5

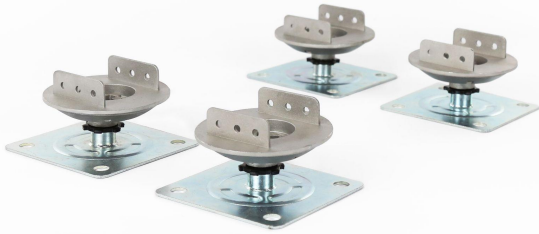
We recommend purchasing an additional 10% of the total material quantity to accommodate deviations in the project layout.



CEMRISE A105 Pedestals feature a customisable 5° tilt adjustment to address variations in substructure or uneven ground surfaces.

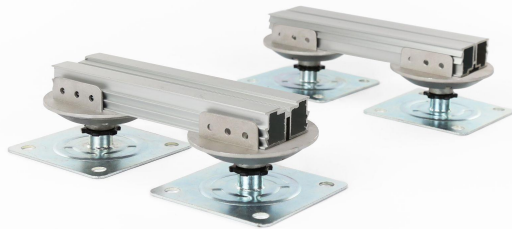
BLOCDECK Installation Sequence.

Step-by-step installation using the CEMRISE A105 pedestal and joist support system.



Step 1: Positioning CemRise A105 Pedestals.

Mark out and position your CemRise A105 pedestals, ensuring a maximum span of 450mm centres for optimal support and stability. Additionally, verify the alignment and spacing of the pedestals to maintain uniformity throughout the decking installation process.



Step 2: Joist Installation.

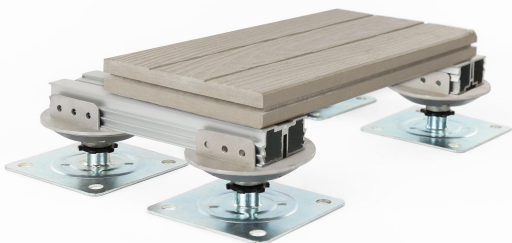
After positioning your CemRise A105 pedestals and laying your joists accordingly, securely fasten the joists into the CemRise A105 pedestal as illustrated in the provided diagram. This step is crucial for maintaining structural integrity and stability in your decking system.

Step 3: Securing the First Clip.

Once the joists have been fixed, anchor down the first starting clip by screwing it in place securely. Double-check the alignment and spacing of the joists to guarantee optimal support for the decking boards.

Step 4: Installing the Decking Boards.

Slide the first BLOCDECK / BLOCDECK VL into position, ensuring a snug fit, and secure it into the starting clip tightly to establish a firm connection. Then, continue to install the subsequent decking boards, ensuring each one is properly aligned and secured for a uniform and durable finish. This step marks the beginning of the transformation of your deck, adding both beauty and functionality to your outdoor space.



Frequently Asked Questions.

Practical guidance for the installation, use and maintenance of BLOCDECK.

Q1. How should the substrate be prepared before installing BLOCDECK?

Ensure the supporting substrate is clean, stable, structurally sound and capable of carrying the imposed loads. Any significant defects or irregularities should be addressed before installation, and adequate provision should be made for drainage.

Q2. What tools are required to install BLOCDECK?

Typical installation tools include a power drill/driver, tape measure, spirit level and suitable cutting equipment. Where boards require cutting, use a **polycrystalline diamond (PCD) saw blade** suitable for fibre cement products. Always use the specified Cembloc fixings and installation accessories.

Q3. Can BLOCDECK be installed over uneven surfaces?

Yes. The CEMRISE adjustable pedestal system can accommodate variations in substrate level and allows the supporting joists to be accurately levelled. Significant substrate defects should nevertheless be rectified before installation.

Q4. How should drainage be accommodated?

The supporting structure should be designed to allow water to drain freely beneath the decking. Maintain appropriate falls, clear drainage routes and the specified gaps between boards to prevent standing water.

Q5. Can BLOCDECK be installed as a DIY project?

BLOCDECK can be installed by competent installers familiar with raised decking systems and fibre cement products. For larger, elevated or more complex installations, we recommend using an experienced professional installer.

Q6. Can BLOCDECK be installed over an existing deck or patio?

Yes, provided the existing structure or substrate is **structurally sound, stable and suitable for supporting the complete BLOCDECK system**. The condition and load-bearing capacity of the existing construction should be assessed before installation.

Q7. Does BLOCDECK require allowance for expansion and contraction?

BLOCDECK fibre cement boards have minimal dimensional movement. Nevertheless, suitable installation gaps must be maintained between boards and at abutments to accommodate installation tolerances, drainage and any minor movement.

Q8. What gap should be maintained between BLOCDECK boards?

A nominal **3–5mm gap** is recommended between adjacent BLOCDECK boards, unless otherwise stated within the project-specific installation requirements.

Q9. How should BLOCDECK be cleaned and maintained?

Routine cleaning can normally be carried out using clean water and a mild detergent with a soft brush or cloth. Avoid aggressive abrasive cleaners or cleaning methods that could damage the finished surface.

Q10. Is BLOCDECK suitable for balconies, terraces and high-moisture environments?

Yes. BLOCDECK is designed for external applications including balconies, terraces and other areas exposed to moisture. Its fibre cement construction is resistant to rot and decay and, when correctly installed, provides a durable, low-maintenance external decking solution.

Embodied Carbon Comparison.

Indicative CO₂e impact of common construction materials

CEMBLOC.



Material	CO ₂ e Impact*
Double Fired Brick	97.1kg
Single Fired Brick	61.02kg
Fired Clay Brick	57.08kg
Aluminium Sheet	56.48kg
Galvanised Steel	16.39kg
Brick Roof Tiles	15.88kg
Cement Particle Board	15.25kg
Ceramic Tiles	12.94kg
Copper Sheet	12.43kg
Unfired Clay Brick	10.11kg
Slate	9.78kg
EPDM Foil	8.60kg
Plaster	7.50kg
Cembloc Fibre Cement Boards	6.99kg
Clay Plaster	1.86kg
Paint Matte	0.36kg
Sprice	-21.77kg
Oak Tree	-26.58kg

*CO₂e values shown per declared unit.

Contact us.

Let's talk about your project.

We are proud of our reputation for delivering excellent service.

Whether you require a part load or a full load delivery, our team will work closely with you to ensure your materials arrive where and when you need them.

From order through to delivery, we are committed to supporting you and your project every step of the way — because together, we can build better.



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