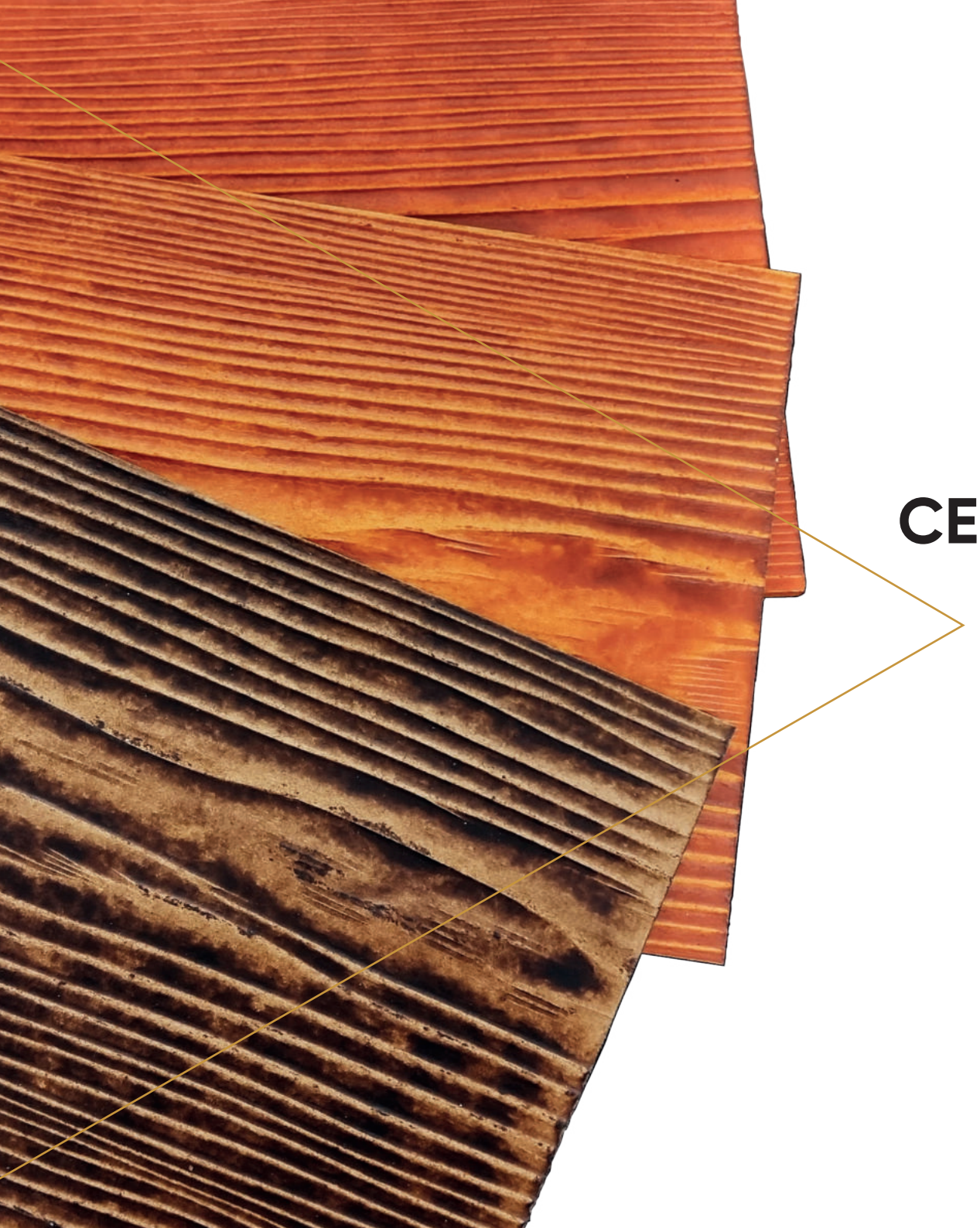


VALCAN

The Defining Standard

A2 FIRE RATED FIBRE CEMENT WEATHERBOARD CLADDING

Valcan Evverlap®

evverlap®

Non-combustible Weatherboard

OUR VISION

To be the trusted advisor for the external façade industry through our outstanding support and customer service

OUR MISSION

To sustainably provide quality and long-lasting façade systems with fast lead times

OUR VALUES

We are **hungry**, **humble**, **smart**, **fast**, and **trustworthy**, & our teamwork helps us to deliver exceptional results that exceed expectations

CONTENTS

About Valcan	4-5
What is Evverlap®?	6-7
Colours	8-9
Application guidance	10-11
Storage and handling	12-13
Installation	14-17
Sustainability	18-19
CPDs	20
Installation support	21
Contact	22

This manual has been developed to effectively assist fabricators and contractors to work with Valcan's Fibre Cement Planks/weatherboards: Evverlap

Due to the uncontrollable conditions and methods of job scope, as well as the variable skills and judgment of users/installers and the quality of equipment, tools, etc., the suggestions and recommendations contained in this manual are provided without warranty.

The information and recommendations contained herein are believed to be correct at the time of publishing

Valcan reserves the right to revise the contents of this manual.

VALCAN, YOUR TRUSTED PARTNER IN A1/A2 NON-COMBUSTIBLE CLADDING SOLUTIONS

WHO WE ARE

Valcan is the trading name of Fairview Europe Ltd and we are part of the Fairview global family. Valcan is a developer and manufacturer of rainscreen cladding systems working with clients, insurers, architects and contractors.

We deliver fully tested non combustible A1 /A2 (A2-s1,d0) certified solutions, paired with reliable and technically assured customer service.

With over 20 years of experience in the façade industry through Fairview's global network, we have established a leading position in the market and are now the preferred company by Architects, Contractors and Fabricators.

HISTORY

Valcan initiated its distribution of Vitrabond A2 Aluminium Composite material to the construction industry during the early 2000s. This effort was made possible through the unwavering support of Fairview Architectural, Australia - a partnership that remains robust to this day.

With a solid background in the façade industry spanning over two decades, Fairview Architectural initially catered to the rainscreen market with their flagship product, Vitrabond.
Presently, we offer a diverse range of 10 products, along with a range of complete cladding systems. Our commitment to providing exceptional customer service drives us to continuously improve our processes and offerings.

WHY CHOOSE VALCAN?

At Valcan, we do not design or install products ourselves. Instead, we have a network of trusted partners we collaborate with to ensure your project is completed to the highest standards of quality and safety. These partners, selected for their expertise, knowledge, and ability to deliver outstanding results, include designers, fabricators, and distributors sharing our commitment to quality, safety, and innovation.

We also have a network of installer partners, carefully chosen for their professionalism, reliability, and commitment to safety. Fully trained and accredited to install our products, they ensure your project is completed to the highest standards.

OUR STRENGTHS

Valcan is renowned for its exceptional dedication to providing top-tier, secure, and innovative solutions in the facade industry. Our principal products and systems boast non-combustibility, earning A1 /A2 fire ratings and setting the gold standard for rainscreen systems.

This commitment to quality is propelled by rigorous research and development, ensuring that every solution we deliver is expertly tailored to cater to each project's unique needs and demands. Whether you're undertaking a new build and recladding projects, Valcan guarantees optimal performance, safety, and
integrity in every product.

We take pride in being a supportive partner to our customers, guiding them through each project phase and helping them achieve their objectives.

WHAT IS EVVERLAP®?

Introducing EvverLap® by Valcan – an classified A2 fibre cement weatherboard that beautifully replicates the look of teak wood grain with a unique raised texture.

These plank-style boards provide both an authentic aesthetic and exceptional durability without compromising safety.

Available in 11 solid colors and 10 stained options, they are the perfect modern alternative to traditional timber cladding like Larch and Cedar.

EvverLap® is less absorbent than timber weatherboard cladding products due to the calcium silicate and cement base used in the production process. The board is also highly resistant to rot, insect and fungal attacks.

BENEFITS OF EVVERLAP®

- **NON-COMBUSTIBLE** – Classified A2-s1, d0 fire-rated in accordance with BS EN 13501-1
- **LIGHTWEIGHT** - 12 kg/m2 for a 8 mm plank
- **VERSATILE** – Extensive colour range and custom options available
- **INSTALLATION** - Easy to install and fabricate on or off site
- **STOCK LEVELS** – High stock holdings in our UK warehouse
- **MAINTENANCE** – Low maintenance, no need to re-stain like natural wood
- **PAINT SYSTEM** – Can be over-painted to update a façade as needed
- **LONGEVITY** – Long life expectancy compared to timber alternatives
- **WIDE RANGE OF COLOURS** – Available in a total of 19 standard colours across two ranges: the Solid and the Stained colour range. Also available in RAL colours.

DESIGN FEATURES OF EVVERLAP®

- Available in 11 solid colours and 10 stained colours
- Colour matching options are available where we can match the current façade colours or if you supply a recognised colour reference, i.e. RAL.
- Tested weather resistance
- Low maintenance
- Classified A2-s1, d0

Evverlap weathboards consist of Portland cement, cellulose fiber's, quartz sand, water and various aggregates. Evverlap combines the attractive and timeless appearance of wood with the undeniable advantages of fibre cement. They are non-flammable, do not rot or mold and, do are easy to care for and dimensionally stable.

CONSTRUCTION FEATURES

- Quick lead times
- Fast installation
- Easily fabricated
- Panel Thickness 8mm as standard (other thickness available)

DESIGNING WITH CERAMAPANEL®

EvverLap is supplied in planks, however, we also offer large format boards on a project-by-project basis (Minimum Order Quantity applies) – these large format boards give the flexibility to produce custom-sized planks on-site (or off-site) to meet architects' design intent.

Panels can be perforated and fabricated to create unique pattern designs.

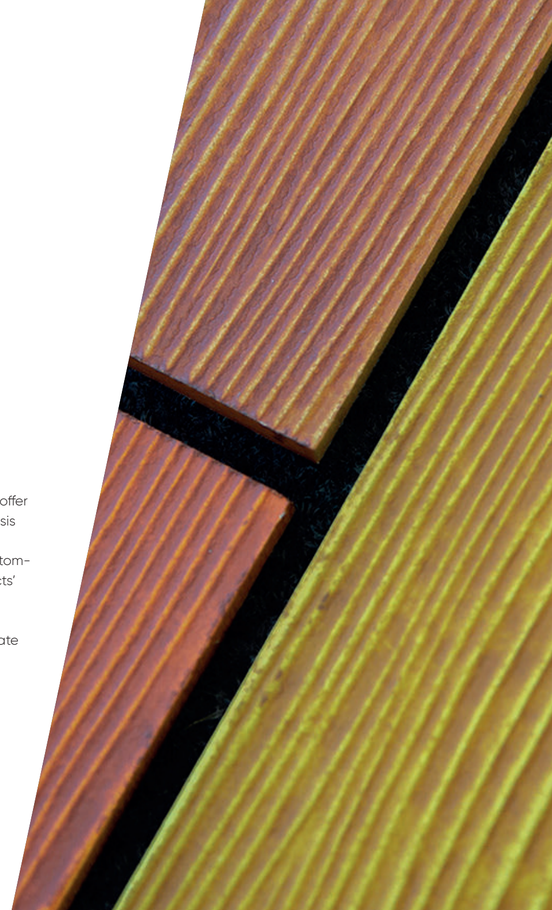
A2

NBS

Specify this product online with NBS Chorus

Recyclable

Download Evverlap A2 Classification Fire Report by scanning the QR code



EVVERLAP® COLOURS

Valcan Evverlap comes in a total of 21 standard colours across two ranges; the Solid colours and the Stained colour range.

Solid Colours
There are 11 standard solid colours to suit façade requirement and design intent - custom colours are also available on request

Stained Colours*
The stained range of colours consists of 10 finishes to suit a wide range façade requirement and design intent. An excellent replacement to common timber cladding such as Larch and Cedar

EVVERLAP® SOLID COLOURS

Telegrey

Blue Grey

Oyster White

Umbra Grey

Copper Brown

Any RAL Colour

Pale Green

Traffic Black

Oxide Red

Light Grey

Silver Grey

Duck Egg

EVVERLAP® STAINED COLOURS

Cherrywood

Honeyoak

Deadwood

Walnut

Beech

Mahogany

Norwegian Maple

COMPLIMENTARY SAMPLES

Get in contact us with today and we'll get up to three samples sent to you free of charge.

**The special stained shades may have colour variations. These are characteristic for the product and underline the natural expression of real wood. Panels from different production batches may only be installed on the same wall surface after a previous on-site inspection with regard to material differences (e.g. colour or structure).*

EVVERLAP ® APPLICATION GUIDANCE

TECHNICAL DATA

Colour coated	Yes
Through-coloured	No
Fire Rating (EN 13501-1)	A2-s1, d0
Mechanical strength (DIN EN 12467)	Category A, class 2
Weight	9,21 kg / pc
Dimensions	3657 x 210 x 8 mm (length x width x thickness)
Density	Approx. 1350 kg/m²
Certificate	CE X008 / DoP

TOLERANCES

Length	+/- 5 mm
Width	+/- 3 mm
Thickness	+ 1,2 / - 0,8 mm
Squareness	+/- 4 mm

A2

A2, s1, d0

Download Evverlap A2 Classification Fire Report by scanning the QR code

STORAGE & HANDLING

TRANSPORT AND STORAGE

The factory packaging only serves to protect the panels during transport, but it is not sufficient weather protection for outdoor storage. Therefore, the panels must be additionally covered even during open transport. The panels must always be stored with their packaging, well ventilated on a flat and dry surface, protected from dirt, moisture and direct sunlight. A maximum of 3 pallets may be stacked on top of each other. The storage timbers must be placed vertically on top of each other. If the material cannot be stored under cover at the construction site, the transport foil must be removed and the opened pallet must be covered with a breathable and waterproof tarpaulin.

Condensation and penetration of rainwater between the stacked panels must be avoided in any case, as standing moisture leads to lime efflorescence which cannot be removed and thus permanently impairs the visible surface.

If panels are stored for a longer period of time - also under roof - we also strongly recommend to partially open the transport foil in order to avoid condensation under the foil and thus prevent lime efflorescence.

Do not install wet or damp sidings!

TRANSPORT

Panels should be transported under a waterproof cover on level pallets securely strapped into place to prevent movement. Ensure that strapping is not tight enough to cause damage to panels.

When unloading panels from delivery vehicles, panels should be unloaded on pallets rather than individual sheets. Unloading should be done using suitable forklifts, if a crane is to be used, ensure that the weight is equally spread to prevent slipping and wide straps are used to assist in spreading loads.

HANDLING AND PROCESSING

Do not pull the panels out of the packaging, but turn the panel on its side and lift it vertically upwards to avoid scratches on the surface in this way.

Always carry the panels on edge. When putting panels back into the packaging, make sure that there is always a separation between the panels. This will prevent the panels from sticking together or scratching.

Evverlap facade panels can be easily sawn, milled or drilled. You can use commercially available machines with carbide or, ideally, diamond-tipped tools for this purpose.

Mechanical processing of the panels must be carried out dry. The resulting dust may contain crystalline silicon dioxide. Inhalation or contact in large quantities may cause irritation of the respiratory tract, skin and/or eyes and must therefore be avoided. We therefore recommend that the panels be processed outdoors or in well-ventilated rooms and that dust-minimizing tools be used.

If adequate ventilation cannot be ensured, we recommend wearing personal protective equipment in the form of protective clothing, mouth and nose protection/ respirator mask of class FFP2 in accordance with DIN EN 149/DIN EN 143, and safety goggles. Any drilling or cutting dust must be removed immediately to prevent sticking. The cut edges must be sealed with the repair paint available as an accessory before installation.

Do not install damaged sidings!

CLEANING AND MAINTENANCE

Evverlap façade panels are designed to last for many years on the façade with very little cleaning and maintenance effort.

However, Evverlap panels can be effortlessly washed from top to bottom with cold or lukewarm water if necessary, adding a mild and solvent-free neutral detergent and using a sponge or soft brush.

After cleaning, rinse the facade well with clear water without pressure.

In case of doubt, test the chosen cleaning method as well as the cleaning agent on a small area to make sure that the surface is not attacked and the desired result is achieved.

We do not recommend using a high-pressure cleaner, as the surface of the panels may be attacked and damaged by improper use.

Lime efflorescence is a natural phenomenon in building materials containing cement. They can usually be cleaned with 5% apple cider vinegar. In this case, the corresponding areas are coated with a sponge or brush and rinsed with plenty of clear water after an exposure time of approx. 3-5 minutes. In the case of stubborn efflorescence, the procedure may have to be repeated with gentle rubbing with a sponge (excessive rubbing must be avoided at all costs, as this can damage the surface).

VALCAN The Defining Standard

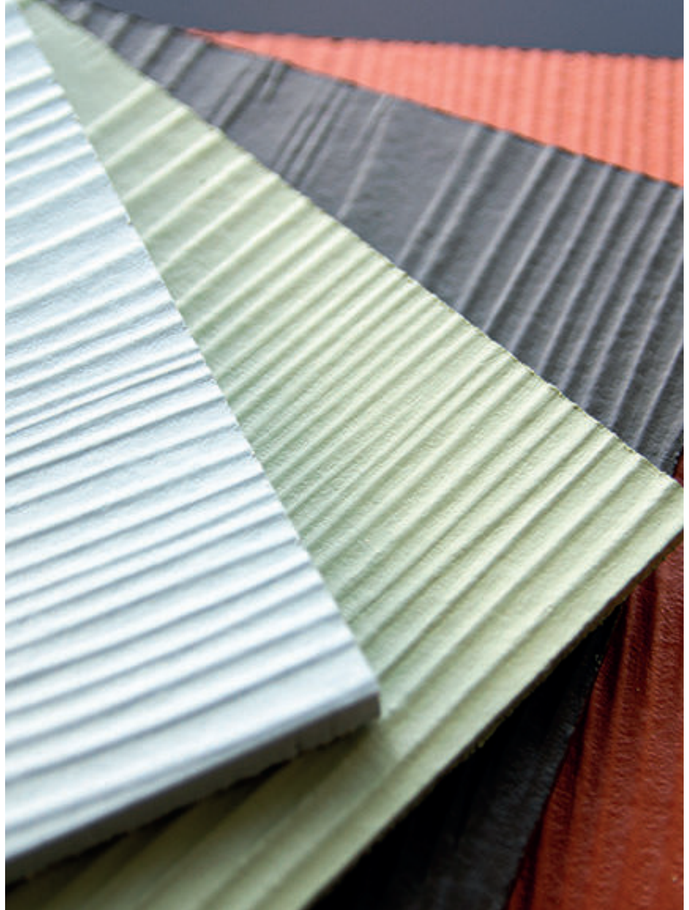
INSTALLATION

Evverlap is used as a ventilated façade construction. The processing is therefore weather-independent, tolerances of the building fabric can be compensated without problems and the entire system can be dismantled and separated into its individual components if dismantled is required.

In terms of building physics, the ventilated façade is an excellent diffusion-open exterior wall construction, which provides numerous advantages both in new buildings and in renovation, such as improved sound insulation, improved heat and cold insulation, extension of building durability and the possibility of using high insulation thickness's to achieve the best energy standards.

According to the application regulations for construction products and kits according to European technical approvals and harmonized standards according to the Construction Products Directive, board-format wall covering elements with a width ≤ 0.3m and a support distance ≤ 0.8m, which are fastened according to general rules of technology, do not require general building inspection test certificates/approvals.

Evverlap facade planks can be used for ventilated wall cladding in compliance with the relevant standards and application regulations in your country in the currently valid version.. In addition, the current local building regulations must be observed.



GENERAL

Evverlap façade planks must always be installed as a curtain wall construction with a continuous rear ventilation level of at least 20 mm thickness from bottom to top (under certain circumstances, local regulations may also require a larger rear ventilation gap).

The ventilation openings must have an opening cross-section of at least 50 cm^2/lfm.
At window and door frames, a spacing of the panels of 10 mm (top/bottom, for rear ventilation) and of 5 mm laterally (for expansion) must be maintained.

The installation of an insect/rodent screen on all ventilation openings is recommended. When selecting an appropriate grille, also consider the necessary ventilation cross-section.

Make sure to align the substructure - especially the supporting lathing for the panels - straight in one plane to achieve an attractive appearance of the fully assembled facade.

In the plinth area, the distance of the panels from the floor must be at least 150 mm. The panels must be installed in such a way that there is no permanent contact with water or water-bearing surfaces.

All fasteners must be made of stainless steel (V2A/V4A).

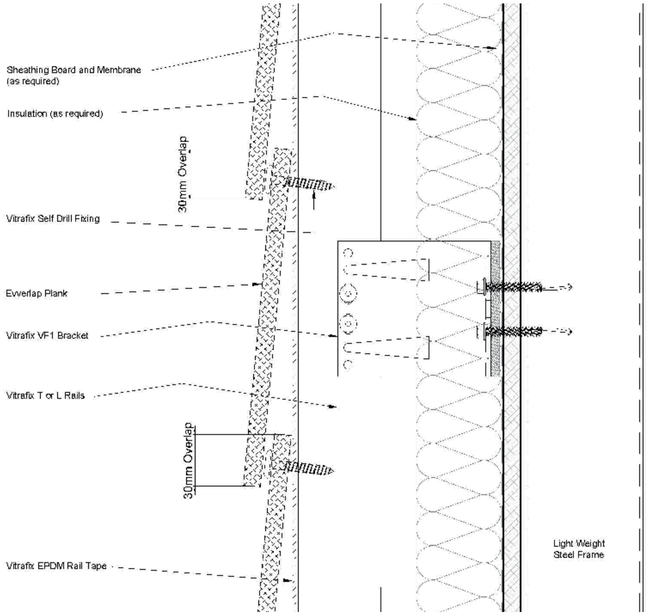
INSTALLATION

EvverLap is light weight and easy to install using specific Vitrafix screws or rivets to either a Vitrafix VF1 or VF2 framing systems (depending on wall build-up) to give a non-combustible solution. Where required, fixings can be colour matched to the panel/plank.

vitrafix®
Aluminium Subframe System

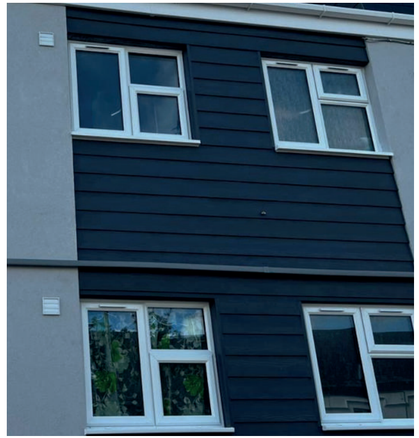
Find out more about VitraFix Aluminium Cladding Subframe Systems and Fixiings by scanning the QR code

Lapping plank installation

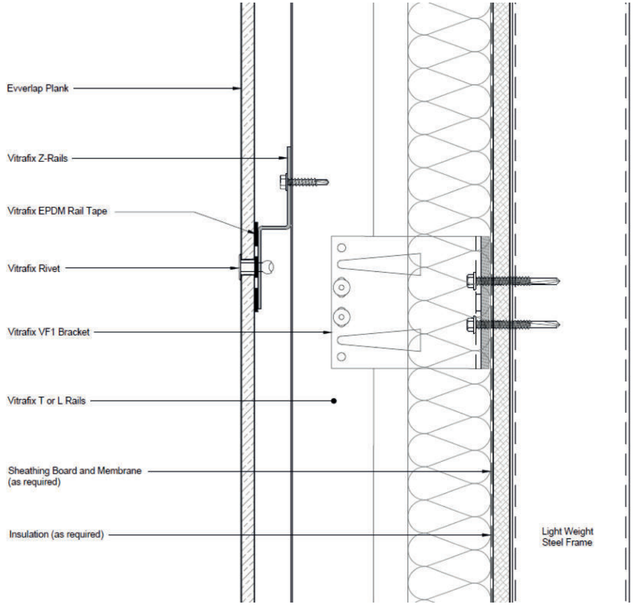


For an overlapping weatherboard type and large format flat sheet installations, fixings are installed at maximum 600 mm centres aligning with the carrier frame behind.

The panels can be easily drilled and cut using standard site tools such as plunge saws, jig saws and mitre saws with fibre cement blades. Panels can be installed to provide a horizontal or vertical lap design as required.



Flat plank installation



SUSTAINABILITY AT VALCAN:
A GREENER FUTURE

At Valcan, we don't just see sustainability as a duty to our environment, we see it as a distinctive business strategy and a dynamic opportunity to innovate.

Our dedication extends to constantly discovering creative ways to recycle and reuse materials, starting with our very own cladding panels.

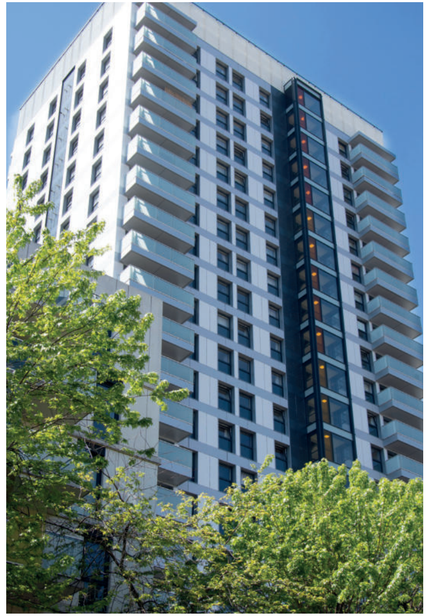
We're particularly thrilled about our initiative of recycling previously installed cladding panels and re-purposing them into vital components of our VitraFix® cladding subframe system.

This strategic approach not only minimises waste but also enables cost-saving in production and contributes significantly to reducing our carbon footprint.

The cycle of sustainability begins with the careful disassembly of the older cladding panels composed of 5000 grade aluminium.

Once segregated, these reusable materials undergo processing and transformation into novel components for VitraFix®. Following this, each component is rigorously tested to meet our stringent quality standards.

Our sustainable methods do more than just helping us honour our commitment to the environment; when clients choose Valcan, they're assured that their cladding panels are not just robust and reliable, but they're also making a conscious choice to support sustainability and reduce waste.



Our pioneering stance in the cladding industry is a testament to our innovative strategies for waste reduction.

As we continue to challenge ourselves in exploring new methods of recycling and reusing materials, our focus remains on diminishing our environmental impact and laying the groundwork for a sustainable future.

EPD®

ENVIRONMENTAL PRODUCT DECLARATION

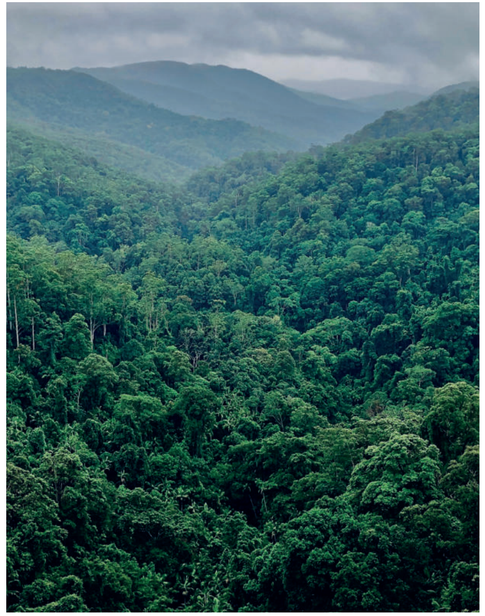
The EPD is an ISO type III Environmental Declaration acc. ISO 14025 standard As that, the EPD differs in many aspects from ISO type I third-party (independent eco-labels) and type II self-declared eco-labels.

Our Vision for a Greener Future:

At Valcan, our goal is to become a greener and more sustainable company by constantly evaluating and improving our operations. We aim to lead the charge in our industry by:

- Continually researching and implementing innovative, eco-friendly manufacturing processes.
- Promoting responsible sourcing of raw materials and engaging with suppliers who share our commitment to sustainability.
- Encouraging our employees to adopt sustainable practices, both at work and in their daily lives.
- Collaborating with industry partners to advocate for better environmental policies and standards.

By taking these steps, we hope to create a positive impact on the environment and inspire others within our industry to follow suit. Together, we can build a more sustainable future for generations to come.



Recycling Program for Aluminium Panels:

We believe in the power of recycling and have implemented a recycling program for our aluminium panels. Customers can return old or damaged panels to us, and we will recycle the materials, ensuring that resources are utilised efficiently where waste is minimised.

Fibre Cement Cladding - fully recyclable:

Fibre cement cladding panels such as Ceramapanel and Evverlap can be recycled completely, thanks to specialist companies that handle the waste material. They shred the surplus materials and mix them with other substances to create road surfaces, minimising the demand for new raw materials. This process helps reduce the need for extracting new raw materials, making it an eco-friendly choice for construction projects.

CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

Accredited cpd
The CPD Standards Office
CPD PROVIDER: 21338
2022-2024
www.cpdstandards.com

Join our free cladding CPD presentations online via or face to face at your premises.

Our popular CPD focuses on fire safety for buildings over 11m high. Lasts for 1 hour including a round of questions and answers at the end.

This provides a fantastic learning opportunity for architects, installers and construction professionals in the UK.

Topics explained are:

- Introduction To Valcan
- Rainscreen Cladding Overview - How It Works
- Fire Regulations - ADB Vol 2 Amendments
- How These Amendments Affect Your Project
- How To Comply Following The Ban On Combustible Cladding
- EN13501-01 Classification Explained
- The Difference Between A1 / A2 classifications
- The Golden Thread
- The Building Safety Act 2022
- Testing Options
- Valcan Solutions - Fibre Cement, ACM & Aluminium etc.
- Case Studies
- Questions & Answers Session

Book your place

Get in touch with us today and we'll arrange the best date/time:

Call: 01278 428245
Email: enquiries@valcan.co.uk
Website: www.valcan.co.uk/cpd

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INSTALLATION SUPPORT

We understand the importance of site visits and quality assurance. If needed, we are happy to arrange a site visit to provide on-site guidance and ensure that the installation is progressing smoothly. Alternatively, we are more than willing to review photographs of the installation to offer remote assistance and double-check any crucial details.

Our aim is to make the installation process as straightforward as possible. With our support, guidance, technical assistance, and comprehensive resources, you can trust that our cladding systems are designed for ease of installation. We are dedicated to your success, and we go the extra mile to ensure your project is completed to the highest standards.*

The route to compliance of the Golden Thread includes all parties; from the client through to the final resident. It is important that everyone does their part to create a future proof record complying with building regulations as set out in the Approved Document B (ADB). Sequencing of works, inspections, commissioning, environmental hazards and project record keeping is responsibility of the installer/designer/contractor.

INSTALLER TOOLBOX TALKS

In our pursuit of fostering a cultural change in the industry, we stand at the forefront as advocates for implementing Dame Judith Hackitt's Golden Thread Principles. Our aim is to empower clients who choose Valcan products to embrace these principles effectively.

To ensure that our standards remain uncompromised, we kindly request all prospective installers to take part in Toolbox Talks and provide tangible proof of operating a professionally managed business. This encompasses aspects such as accurate pricing, efficient project completion, and the ability to offer a comprehensive package to clients.

Support and Toolbox Talks will be provided on:

- VitraFix®, Vitradual® & Ceramapanel®
- Fabrication Techniques
- Installation Methods
- General Housekeeping
- Questions & Answers

To take part in an Installer Toolbox Talk get in touch with us by speaking to your contact directly.

Alternatively, call us on **01278 428 245** or email us at **enquiries@valcan.co.uk** and we'll get you registered for the training course.

*Note: Sequencing of works, inspection, commissioning, and project record keeping throughout the construction process is the responsibility of the building owner in order to comply with building regulations as set out in Approved Document B. Download the document here.

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evverlap®

Non-combustible Weatherboard

VALCAN

The Defining Standard

T: +44(0)1278 428 245

E: enquiries@valcan.co.uk

W: www.valcan.co.uk

Dunball House,
Woodlands Court Business Park,
Bristol Rd,
Bridgwater, Somerset
TA6 4FJ