

bespoke
composite
panels

VIVALDA
bringing construction to life®

Since 1999, VIVALDA have been producing high quality, durable composite panels for the construction and glazing industries. Our specialist production centres have the capabilities to manufacture bespoke composite panels to suit an extensive range of specifications.

Introduction

Composite panels are used in glazing systems or curtain walling to provide thermal insulation properties as well as a finished decorative face in one application.

We pride ourselves on being the specialist composite panel providers, distributing across the UK and Ireland. All of our staff have vast experience in working with a diverse product range, with a variety of insulation to meet specific project requirements. Our technical support team can offer assistance with selecting the

correct products to meet the desired specification and additionally provide assistance on site if required.

Our range of equipment and machinery allows our expert production team to manufacture bespoke composite panels to any specification. This includes fabricating welded and dressed trays to achieve specific U-value thermal requirements.



Our vast offering of products include:

- Square edge infill panels
- Top hat panels
- Corner panels
- Fascias and soffits
- Window cills
- Flashings and trims
- Column casing / post covers

Production

All our panels are factory produced to the highest standards with regular inspections at each stage of the manufacturing process. VIVALDA's commitment to quality inspection and high standards in the production environment means our composite panels leave our site in excellent condition, ready for installation.

Warranty

For your reassurance, VIVALDA offers a 10 year warranty on the bonding process, to cover against delamination. For each component element of the composite panel, depending on the material used, the component manufacturer warranty will apply. Please speak to your VIVALDA representative when enquiring.

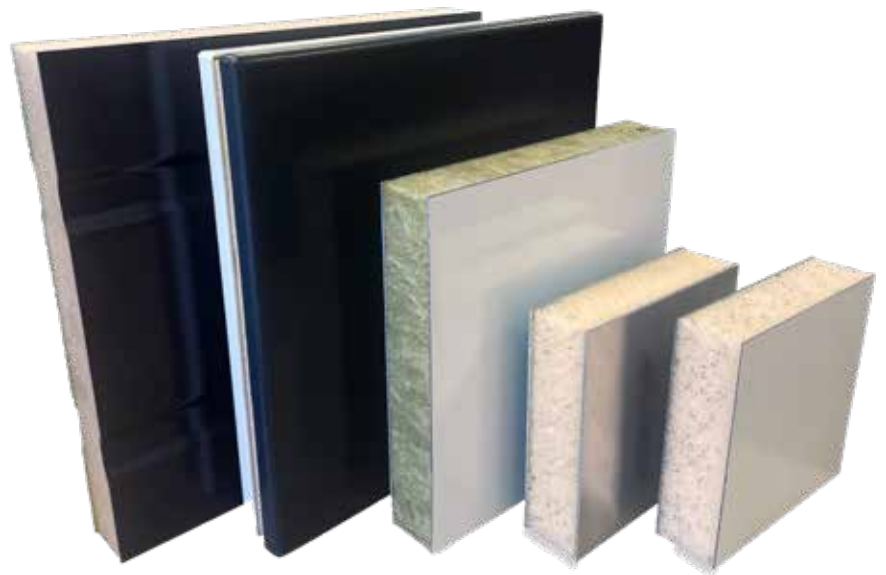
Our diverse offering of components include:

Face materials

- Trespa - High-Pressure Laminate (HPL)
- Polyester Powder Coated Aluminium (PPC)
- Plastisol - Colour Coated Steel
- Glass Reinforced Plastic (GRP)
- Steni - Stone Aggregate
- Alulap

Insulation

- Polyfoam XPS
- Lamella - Mineral Fibre
- Polyisocyanurate (PIR)
- Polyurethane (Pu)
- Phenolic
- Solid Timber



All the market leading brands



In-house fabrication



On-site training & assistance



Nationwide coverage

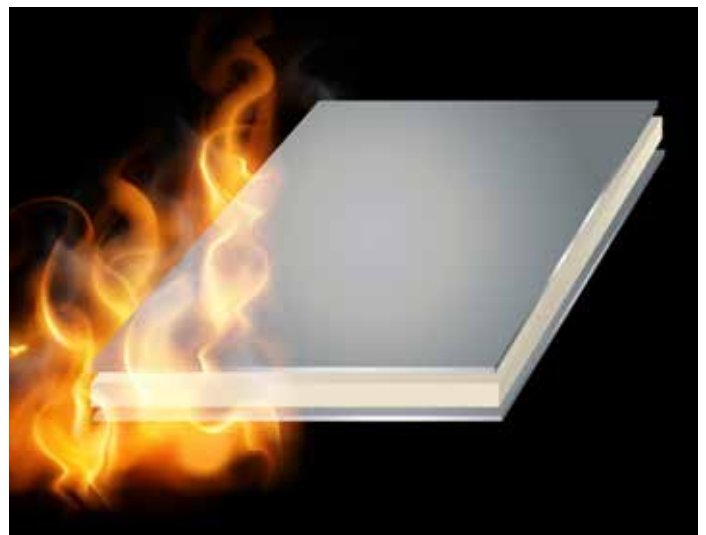
Fire-rated Aluminium Infill Panels

Exceeds Industry fire standards

Fire-rated infill panels are crucial components in construction, particularly in structures where fire safety is paramount. These panels serve as barriers, containing fires within designated areas and preventing them from spreading rapidly playing a key part in ensuring fire safety.

Efficiency in their installation, combined with high fire safety standards and design flexibility, is essential for ensuring both structural integrity and aesthetic appeal.

VIVALDA manufacture fire-rated composite panels, Fortis A2 to suit all glazing systems. Each panel is built with a fire-safe, non-combustible mineral fibre Lamella core optimising performance and helping to prevent the spread of fire within a building.



**Our panels are tested to British standard
BS EN13501-1:2018 and achieve A2-s1,d0.**

FORTIS A2

composite panels



A2-s1,d0
EN 13501-1: 2018

Panels often sit in non-vision curtain walling areas to help conceal the structure that lies between floors in buildings adding interest and continuity to the building façade. Fortis A2 panels can be colour-matched to 1000s of RAL colours to suit the surrounding façade or glazing system.

We work with you to ensure our panels meet precise measurements and stringent fire specification.

Contact us today to discuss your fire-rated needs at composites@vivalda.co.uk.

Benefits

- Available in RAL, B.S and Syntha Pulvin colours
- Manufactured to individual specification
- Low maintenance
- Designed to suit your glazing system
- Meets U Value requirements

Technical

- A2 Fire Rated
- Overall panel thickness: 28mm - 150mm
- 1.5mm polyester powder-coated aluminium
- Lamella core

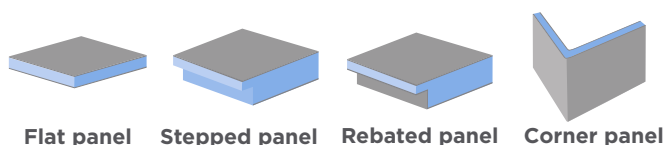
composite range

FORTIS^{SP}

composite panels

Benefits

- Available in RAL, B.S and Syntha Pulvin colours
- Designed to individual specification
- Cost effective
- Create bespoke panels as stepped, rebated (tray), corner panels and column casings
- Flashing, cills, soffits, fascia's, column casings and cover trims available to match
- Corner panels of varying angles



Colour options are truly endless with PPC aluminium panels, with finishing options available in matt, satin or gloss. All our panels go through various stages of a pre-treatment process to ensure longevity before they are powder coated using state of the art equipment that offers a 25 year powder coating guarantee.



Technical

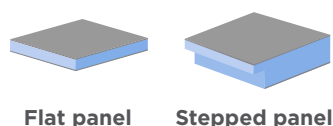
- Up to 4000mm x 2000mm
- Aluminium thicknesses: 1.2mm, 1.5mm, 2mm or 3mm
- Panel thicknesses: 6mm - 150mm
- Can be powder coated to a marine environment finish if required

Trespa Meteon - High-Pressure Laminates (HPL)

Trespa Meteon is a decorative high-pressure compact laminate (HPL) with an integral surface manufactured using Trespa's unique in-house technology, Electron Beam Curing (EBC). The blend of up to 70% wood-based fibres and thermosetting resins, manufactured under high pressures and temperatures, yields a highly stable, dense panel with a good strength-to-weight ratio.

Benefits

- Wide range of colours and finishes
- Excellent colour stability
- Weather, UV and chemical resistance
- Low maintenance and easy to clean
- Scratch, impact and graffiti resistance
- Can be manufactured as a stepped panel to increase thermal efficiency



Technical

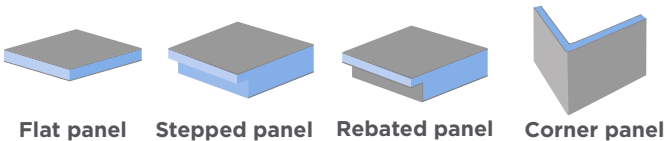
- Up to 2550mm x 1860mm or 3050mm x 1530mm
- Trespa 3mm only available in uni colours (satin), woodgrains and metallics. Minimum order quantity applicable.
- Panel thicknesses: 13mm - 150mm

Plastisol – Colour Coated Steel

Plastisol offers a high quality, long lasting finish with up to 40 years life expectancy and properties such as high durability and abrasion resistance. The 200 micron-thick embossed plastic coating is available in a wide range of non-metallic colours and suitable for all types of buildings, in coastal and inland locations.

Benefits

- UV resistance and impact resistant
- Low maintenance
- Cost effective
- Ideal for both new and replacement glazing systems
- Can meet bespoke specifications as stepped and rebated panels
- Wide range of colours
- Available in Leathergrain, Scintilla and PVF2



Technical

- Up to 3000mm x 1250mm
- 0.5mm / 0.7mm gauge steel
- Panel thicknesses: 8mm - 150mm

Alulap

Alulap is a product designed to replicate traditional ship-lap with the heightened performance of lightweight aluminum panels. Grooves are spaced at 100mm centres (horizontal and vertical available) and are supplied cut-to-size using our in-house fabrication facilities. Alulap is suitable for use on curtain walling, door infills and window infills. Panels can be powder coated in any RAL or BS colour using our group coating facilities.

Benefits

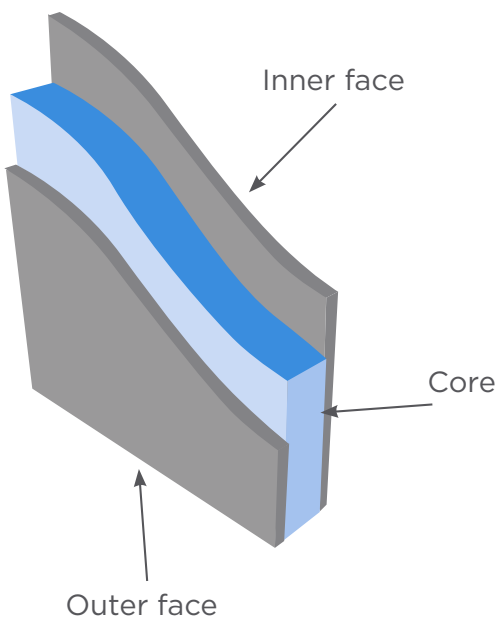
- Available in RAL, BS and Syntha Pulvin colours
- Designed to individual specification
- Cost effective
- Decorative design



Technical

- Aluminum thickness: 1.5mm
- Panel thicknesses: 18mm - 150mm

Creating Thermal Efficiency



VIVALDA offers a wide range of core materials and can advise on the most suitable product for your project requirements.

The standard boards we recommend are Polyfoam, Lamella - mineral fibre, Polyisocyanurate (PIR), Polyurethane (Pu) and Phenolic, which can be further reinforced with timber or fibre cement board for additional security

Thermal efficiency is a key requirement for most building projects, with composite panels having to meet specific U value requirements.

The table shows the thermal performance of each insulation.

	Polyfoam	Phenolic	Lamella	PIR	Pu
Thermal Conductivity (K Value)	0.033	0.021	0.040	0.023	0.024
Density (kg/m³)	30kg/m ³	40kg/m ³	164kg/m ³	35kg/m ³	40kg/m ³
Compressive Strength (kPa)	200kPa	180kPa	190kPa	175kPa	200kPa
Reaction to Fire* (DIN 4102)	F	B1	A1	B2	B3

* Whilst the individual components have fire properties, once they have been bonded this becomes an untested product that would need to be tested within a glazing frame, to ascertain its individual performance.

aluminium door panels

Trusted by manufacturers

Vivalda manufacture a wide range of aluminium door panels in a choice of 1000's of RAL colours and a comprehensive range of glass options to suit any taste.

With years of experience in manufacturing aluminium panels, we take pride in the quality of door panels we produce. We use 1.5mm aluminium and 4.5mm cement board reinforcing as standard. The enclosed edges on all sides of the panels increase security, stability and ensures long lasting aesthetic appeal.

We pride ourselves on service, reliability and innovation. Our dedicated team collaborate with window and door manufacturers to create a premium door for your clients to be proud of.

Get in touch with us today at composites@vivalda.co.uk.



Customisation

Trusted by well-known window and door manufacturers, our aluminium door panels have earned a reputation for quality, reliability, and performance. With countless successful installations in projects of all sizes and complexities, you can trust our products to meet your client's expectations and exceed industry standards.

Choose our products for superior durability, reliability, and aesthetic appeal. Contact us today to learn more about our door range, request a full brochure and how we can support your next project.

Benefits

- **Durable**
- **Reinforced**
- **Robust**
- **Reliable**
- **Total control**
- **Unrivalled colours**
- **Customisable**
- **Various sizes**

Please refer to our **Aluminium Door Panels brochure** for the full range available.

bespoke metal features

Features

Finish your building envelope design with VIVALDA.

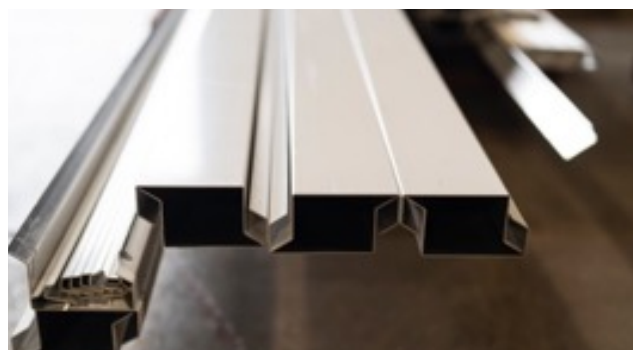
From features and flashings to louvre panels and window pods, we offer a wide range of building features to suit every project. Whether you're working on residential or commercial, our diverse selection ensures that you'll find the perfect solution for your specific requirements.

Our sister company MSP Façade Solutions design and manufactures bespoke metal building products to finish your façade beautifully.

MSP has been producing aluminium panels for over 50 years with a heritage of skilled metalwork combined with technical expertise in bespoke metal design and production, contributing to thousands of completed building facades and supporting longstanding satisfied customers.

Our vast offering of products includes:

- Window Pods
- Flashings
- Features
- Guttering
- Spandrel Panels
- Louvre Panels



Powder Coating

MSP benefit from in-house powder coaters, Prism Powder Coating. The only approved QUALICOAT accredited applicators in Scotland and only 1 of 20 in the UK. Boasting state-of-the-art production facilities featuring, environmentally friendly, chrome-free pre-treatment.

Our in-house powder coating facility ensures we achieve a continuity of product quality and service that is unrivalled.

We can assist the design team with budget costing, typical details and specification clauses for the panels and framing systems we offer. Work with us on your next project!

At VIVALDA we pride ourselves on being the specialist composite panel providers, serving customers across the UK and Ireland.

We take on any size job and treat all projects with the same level of efficiency, professionalism and expert touch.

Our experienced sales team offer competitive quotations and technical advice.

Our extensive machinery and equipment includes:

- **CNC routers**
- **Computer operated beam saws**
- **Guillotines**
- **Hydraulic presses**
- **Vacuum presses**
- **Pressbrakes**
- **Welding equipment**
- **Powder coating plant**

Our range of equipment and machinery allows our expert production teams to create bespoke composite panels to exacting size and shape requirements. This includes fabricating rebated trays in order for panels to be glazed into the system, this help to achieve specific U-value thermal requirements, and corner panels that can be shaped to varying angles.

With a vast network of branches, VIVALDA have excellent transport links; allowing our bespoke composite panel service to reach all our customers anywhere in the UK and Ireland. As part of our transport services, we offer palletised delivery to allow for ease of offloading, professional pallet labelling (to customer requirements), plus protective wrapping of the products so they arrive in the same excellent condition that they left our warehouse.

VIVALDA's specialist production centres have the capability to manufacture bespoke composite panels to suit an extensive range of specifications.

Contact us today composites@vivalda.co.uk



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VIVALDA
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