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*Opposite Page: 580 George Street | Architect: Nettleton Tribe*
Since its first market introduction over 45 years ago, ALUCOBOND® has significantly influenced the appearance of many buildings. During these four decades, a constant development in architecture has taken place. ALUCOBOND® has contributed towards this development and today it is a prominent feature in a large number of attractive and distinctive architectural projects around the world.

The enormous success of ALUCOBOND® is based on its excellent product qualities such as exceptional top-grade flatness and rigidity, low weight, fire resistance, excellent formability, weather resistance, simple fabrication and ease of cleaning. In addition, a large choice of colours and a wide variety of designs offer architects and designers unlimited possibilities for creative, innovative and customised planning.

ALUCOBOND® is available in a large range of formats and the possibilities for implementing ALUCOBOND® for interior and exterior applications are extremely varied. It is used in projects ranging from the precise construction of residential buildings, representative public buildings, company headquarters, commercial and industrial buildings to the prestigious landmarks of modern urban construction. Since all ALUCOBOND® products are fully recyclable, they are ideal for projects that highly value the use of eco-friendly materials.

In the future, ALUCOBOND® will continue to focus strongly on innovation. With new products and surfaces, we will offer new possibilities and solutions to the world of architecture.

HISTORY

Originating from an ingenious, patented product idea, the unique success story of ALUCOBOND® began when the product was launched on the market in 1969. Originally used for upgrading shop buildings, transport applications and furniture construction, architects and designers soon discovered the host of advantages of ALUCOBOND® for the use in exterior architectural applications and corporate identity programs, particularly in façades, wall cladding and roof edging.
FROM PIONEER TO INDUSTRY STANDARD

Since 1969, the original ALUCOBOND® aluminium composite material has been the most popular in the world. The innovative concepts of ALUCOBOND® have proved themselves through many years of experience, innovative developments and first-class service.

The Original
ALUCOBOND® offers architects and designers unlimited opportunities for creative, innovative and individual planning. The components can easily be fabricated and fitted on site. The wide range of interior and exterior applications are matched only by the product’s versatility.

• High formability and stability
• Diversity of brilliant colours and excellent weather resistance
• Individual design and easy processing
• Lightweight and large panel sizes
• Internationally proven and recognised fire performance

The innovative concepts of ALUCOBOND® and of the honeycomb composite panel ALUCORE® have proved themselves through many years of experience, innovative developments and first-class service.

Since 1969, the original aluminium composite material has been the most popular in the world.

Comprehensive Service
The technical service teams at HVG Facades support architects and building owners early in the planning stage and throughout the project lifestyle. They provide comprehensive technical information and customised advice to assist with the perfect implementation of all ideas and plans. For every project, the proven strategy to achieve a smooth completion lies in an early coordination between vision, architectural plans and the many possibilities which our unique panels give to fabricators and installers.

Our product and application expertise is the fastest and safest way to success, whether it be for buildings, renovation projects or interior and exterior applications.

Worldwide
The close co-operation between the HVG Facades team and ALUCOBOND® worldwide allows us to continue to be at the forefront of technology and provide Australian architects and designers with the most current and up to date design trends.

Regardless of where the project is physically located, the ALUCOBOND® team and its partners ensure quick and professional onsite service.

The worldwide success of ALUCOBOND® speaks for itself. Never compromise when it comes to quality and experience. Your nearest fabricator will provide a tailor-made solution that will stand the test of time.

Fabrication Centres
For over 50 years, qualified, independent fabricators and installers have become firmly established, offering professional service to the building industry. They have acquired in-depth knowledge in the processing of ALUCOBOND® and their skilled personnel and specialised processing equipment ensure that your project is completed on time and within budget.

Why use ALUCOBOND®?
• ALUCOBOND® is the original and the world’s most widely recognised aluminium composite material.
• Manufactured since 1969, by the world’s largest and longest established aluminium composite producers.
• ALUCOBOND® has a factory applied coil coated Fluoropolymer (PVDF or FEVE) paint finish; recognised and proven worldwide as the best architectural coating available today for all climatic and environmental conditions.
• ALUCOBOND® is very cost effective, even in the most complex situations.

Features & applications
ALUCOBOND® is lightweight, extremely flat and rigid.

ALUCOBOND® has excellent vibration dampening characteristics.

ALUCOBOND® can be bent, curved or shaped to any required angle.

ALUCOBOND® can be used as a fascia, as a cladding panel, for interiors or signage.

ALUCOBOND® is ideal to fit into any curtain wall system.

Prompt delivery
Substantial stocks of ALUCOBOND® are kept at our Distribution Centres in Melbourne, Sydney, Brisbane, Adelaide and Perth.

Technical support
Free technical support and backup is available.

Email: technical@hvgfacades.com.au
Phone: 1300 881 712.

Australia’s most popular aluminium composite material; only available from HVG Facades.
MODERN APPEAL

The unsurpassed finish and flatness of ALUCOBOND®, its dynamic range of colours and exciting shapes allow the designer complete freedom of creativity. Lightweight yet strong, ALUCOBOND® is the ultimate material for creating a striking first impression.

High Rise
Whether you are cladding a new building or refurbishing an old one; there is no doubt that the long-lasting appeal of the contemporary finish, unparalleled durability and flexibility of application makes ALUCOBOND® an outstanding choice. The means for creating a striking landmark in any location regardless of aspect or challenging environmental factors demonstrates the flexibility and variety ALUCOBOND® offers.

Low Rise
Smaller structures, new or old, commercial or domestic, benefit equally from the ALUCOBOND® promise...a building that says “today and for the future”.

Public Buildings
Public offices, healthcare, education facilities and civic centres demand a highly functional yet attractive solution for exterior and interior cladding. The wide array of colours, shapes and textural detail allows ALUCOBOND® to answer the call for a modern and efficient finish that will enhance the overall appeal of the dynamic urban setting.

Style
Realise decades of architectural individuality and classic styling with ALUCOBOND® aluminium composite material.

The unsurpassed finish and flatness of ALUCOBOND®, its dynamic range of colours and exciting shapes allow the designer complete freedom of creativity. Lightweight yet strong, ALUCOBOND® is the ultimate material for creating a striking first impression, with the durability to retain its sleek good looks, long after other methods lose their lustre.
Property owners and architects alike seek to continually challenge the status quo of residential projects using interesting surface finishes, combined with unusual architectural features and forms. Adding distinctive style to a suburban residence is now possible with ALUCOBOND® aluminium cladding, which allows almost unlimited scope to create the ultimate dream home. ALUCOBOND® has allowed architects to create façades that were never thought possible for residential architecture. The possibilities now seem as endless as a creative mind allows.

RESIDENTIAL APPLICATIONS

Whilst ALUCOBOND® may have started life as a façade of choice for commercial architecture, architects saw very quickly how ALUCOBOND® could work with residential design and so began the amazing transformation of contemporary aesthetics with residential design.
ALUCOBOND® is the ideal material to create and maintain your corporate image. Unlike other alternatives, ALUCOBOND® incorporates attributes such as long term colour consistency and weather resistance, excellent flatness, rigidity and formability, as well as ease of maintenance.

With low maintenance and unmatched strength to weight ratio and CodeMark compliance, major organisations such as Priceline, Puma Fuels, Beaurepairs, Australia Post, Mecca Maxima, CBA, and Hyundai use ALUCOBOND® for their institutional branding Australia wide.

ALUCOBOND® offers a tailor-made solution for every project, in terms of exclusive colours, eye-catching details, unusual shapes or innovative surface contours.

Our dedicated corporate identity managers, quality European product and warehousing capability sets us above the competition. HVG Facades has a proven history of facilitating smooth supply programs for large corporate rollouts.

CORPORATE IDENTITY

Offering a wide range colour palette, limitless design opportunities and availability of custom corporate colours, ALUCOBOND® is the ideal product for corporate branding. For these reasons, Australia’s most trusted brands choose ALUCOBOND® composite material for their corporate identity.
MODERN REFURBISHMENT

ALUCOBOND® offers an instant update to any building facade by transforming aged, tired or dated designs into new contemporary structures with striking appeal. A popular choice with building owners, ALUCOBOND® is ideal for retrofitting existing buildings.

After years of constant use and the ongoing effects of our harsh environment, many existing structures now exhibit stained concrete, cracked masonry, failing render and other time-related problems. Inevitably, this adversely affects aesthetics and market value. The most efficient and effective way to restore exterior surfaces and protect asset value is with ALUCOBOND®. The combination of surface finishes, colour options, durability and flexibility of ALUCOBOND®, all contribute to the modernisation of any building and create a dramatic transformation. ALUCOBOND® offers outstanding protection from the weather and will withstand the effects of industrial pollution. ALUCOBOND® is an energy efficient and cost effective method of contemporary renovation.
## PRODUCT RANGE

### ALUCOBOND® PLUS

**Thickness:** 3 mm / 4 mm / 6 mm

<table>
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<th>Width [mm]</th>
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</tr>
<tr>
<td>Terra</td>
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<td>–</td>
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<tr>
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*Available in 2000mm wide

### ALUCOBOND® A2

**Thickness:** 3 mm / 4 mm / 6 mm

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<td>Urban</td>
<td>–</td>
<td>●</td>
<td>●</td>
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Other specifications available upon request

Transport and industry

**Dibond**

The light-weight and rigid composite material is ideal for large signage applications, architectural signs, display and exhibition, POS / POP display, digital & screen printing, photo mounting, interior design, industry and transport.

**Alucore**

Based on the principles of nature, **ALUCORE®** is an aluminium honeycomb core composite material with high rigidity and extremely low weight. It is designed for high wind load applications and/or where large unsupported spans are required.

ALUCOBOND® is produced in a continuous and fully automated process; this process introduces dimensional tolerances and factory edges that require the panels to be trimmed on all 4 edges prior to installation. 3A Composites and HVG Facades do not recommend installation of untrimmed ALUCOBOND® panels.
THE PRODUCT

ALUCOBOND® has been developed as a rigid, yet flexible façade material for architectural uses. ALUCOBOND® is extremely weatherproof, impact-resistant, unbreakable and ensures easy and fast installation. ALUCOBOND® is produced in a continuous lamination process and comes in various core thicknesses; with 4mm being the standard option in Australia. All painted panels are supplied with a protective peel-off foil.

**Colours**
ALUCOBOND® is now available in 30 standard colours, 34 specialty surfaces including Spectra, Sparkling, Anodized Look, NaturAL, Urban Design, Terra and Legno. Custom colours are available on request.

The fluoropolymer (PVDF or FEVE) coating is applied to the aluminium coil prior to lamination into a composite material, using a continuous coil coating process, which is based on the latest technology. The multiple layers are individually stoved at temperatures of between 200-260°C.

The quality of the coating is tested according to standards established by E.C.C.A (European Coil Coating Association) of which 3A Composites is a member. Fluoropolymer (PVDF or FEVE) coating systems combine good formability and excellent surface durability. They are extremely resistant against weathering, strong solar radiation and pollution attack. Due to different production processes being applied for ALUCOBOND® PLUS and ALUCOBOND® A2, slight colour variations may occur between different products. If colour consistency is required do not mix different products.

**PVC Tapes**
The application of PVC type tapes, Silicone or Polyurethane sealants to the PE protective foil or directly to the painted surface of ALUCOBOND® is not recommended. Plasticisers and/or solvents contained within these products could affect the painted surface resulting in a localised change in gloss level.

**Solid Colours**
No matter whether a soft white or a vibrant red is selected, solid colours are always a good choice when a uniform appearance without special effects is required. The gloss of solid colours is between 30-40% according to Gardner scale.

**Metallic Colours**
The different appearance of colour and gloss under various light conditions and viewing angles gives these surfaces a vivid impression and brings them to life. The gloss of metallic colours is between 30-40% according to Gardner Scale.

**Special Effect, Spectra Colours & NaturAL Finishes**
These eye-catching finishes are applied using the same coil coating process and are the result of continuous development of new paint systems and provide evidence of 3A Composites’s know-how and competency in the latest coating technology. Unless specified, the gloss level of these specialised finishes are between 70 - 80% according to Gardner Scale.

**Anodized Look & Urban Design**
The Anodized Look range combines high quality paint performance with a smooth, low gloss appearance to provide a naturally striking finish.

Offering an extremely matt surface, the new Urban Design range provides a contrasting option to higher gloss surfaces, enabling a variety of effects on your next project.

**Terra Colours**
Stone and crystal stand for endurance, authenticity and intrinsic value. They reflect light in a magical, vibrant way and their texture is unexpectedly varied: ranging from rough to smooth. ALUCOBOND® terra is inspired by iridescent stone. The décor’s surface refracts the daylight creating a matt sheen and lustrous hues, sometimes elegant and sometimes earthy, ALUCOBOND® terra unites the typical crystalline surface and velvety feel found in natural stone with many of the advantages of ALUCOBOND® composite panels.

**Legno**
ALUCOBOND® with the natural beauty of wood and the outstanding features of ALUCOBOND® aluminium composite materials to enhance the design of your architectural project.

**ALUCOBOND® Design**
Individual design, tailored to your needs, can from now on be realised on the proven ALUCOBOND® panels. The ALUCOBOND® design collection gives a glimpse into what is possible with this new and innovative product. This inspirational collection includes Art / Fashion, 3D Effect, Stone / Natural, Carbon, Concrete and Wood.
# ALUCOBOND® TECHNICAL DATA SHEET

## Alucobond Type

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<tr>
<th>Panel Thickness</th>
<th>Standard Unit</th>
<th>3mm</th>
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<td>5.9</td>
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## Alucobond Plus

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## Acoustic Properties

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<td>Loss Factor d</td>
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## Thermal Properties

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<td>Heat Transition Coefficient U</td>
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<td>Temperature Resistance Tₜ</td>
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</table>

---

Right | Melbourne Park Administration & Media Centre Architect Hassell & Arup
FABRICATION
FOR FURTHER TECHNICAL DATA, CALL YOU LOCAL ALUCOBOND® SPECIALIST

Cutting
ALUCOBOND® can be cut with a vertical panel saw, circular or jig saw. For information relating to tool geometry, cutting speed and feed rates refer to Processing & Technical Data brochure.

Shearing
Shearing can be done with a guillotine. To prevent surface damage, use protective pads between down-holders and ALUCOBOND® surface and adjust to minimum down holding pressure. Use carpet protection on feeder table. Do not use ball supports as they damage the ALUCOBOND® surface. Shearing will cause a slight deflection of the cut edge on the impact side.

Drilling
ALUCOBOND® can be drilled with twist drills normally used for aluminium and plastics on machines common for metals. Drill material: High-speed steel (HSS) We recommend metal drills with centre-point.

Roll Bending
ALUCOBOND® can be bent using a roll bending machine (pyramid or pinch rollers). To protect the surface finish of ALUCOBOND® during bending use only polished rollers free of dents and other defects.

Contour cutting
ALUCOBOND® can be cut to shape using CNC machining centres, water jet cutting machines, copy routers and jig saws.

Riveting
Riveting is possible using solid or blind rivets with conventional riveting tool. For exterior applications allow for thermal expansion and possible building movements.

Clamping
With serrated cornerjoint or butt-joint sections or clamped between special aluminium extrusions.

Welding
The plastic core of ALUCOBOND® can be hot-air welded using conventional hot-air welding equipment and plastic filler rod. Hot-air welding provides a water-tight joint for decorative purpose only. It is not suitable for joints where structural strength is required.

Punching
ALUCOBOND® can be punched using conventional sheet metal punching machines or manual notchers. For clean cuts use sharp tools and dies with minimal cutting clearance. Punching will cause a slight deflection of the cut edge on the impact side.

Screwing
Use conventional wood, sheet-metal or machine screws made of stainless steel. For exterior applications allow for thermal expansion and possible building movements.
**Bonding**

For exterior use and structural applications:
- Double-sided structural bonding tapes

For interior applications:
- Metal adhesives
- Double-sided structural bonding tapes

Adhesives and sealants do not adhere to the plastic core. Apply to the aluminium cover sheet only. Consult sealant manufacturer for correct application.

**Bending**

Bending is possible with a folding table or a bending press. To protect the surface finish of ALUCOBOND® during bending use padding strips. The springback of ALUCOBOND® is greater than that of a solid aluminium sheet. To determine spring-back for serial production, make tests on sample panels.

**Routing & Folding**

ALUCOBOND® composite material can be shaped using a very simple processing method. The technique, called the routing and folding method, enables a fabricator to produce shapes of various kinds and sizes.

A V-shaped or rectangular groove is routed on the reverse side of the ALUCOBOND® composite material using a disk or end milling cutter.

A thin layer of the core material should be left at the base of the groove, i.e. on the inside of the outer cover sheet. The untouched outer cover sheet can now be bent manually, giving an exact and clean folding line which follows the routed groove. The outer radius of the folded edge depends on the shape of the groove and its depth.

The routing can be done using a vertical panel saw equipped with ALUCOBOND® grooving accessories, a CNC machining centre, a portable sheet milling machine or a hand router. The routing and folding method can be used for ALUCOBOND® composite material with all available standard surface finishes.

For information relating to tool geometry, cutting speed and feed rates for ALUCOBOND®, refer to Processing & Technical Data brochure.

**Surfaces**

ALUCOBOND® surfaces are coated using exclusively high-quality and eco-friendly lacquer systems. They are highly weather resistant and resistant to industrial emissions. These properties are achieved using UV-resistant bonding agents. For standard finishes, fluoropolymer top coats (PVDF & FEVE) are used. All surface coats are applied in a continuous coil-coating process, i.e. with a continuous coating and stove-lacquering procedure.

The quality of the coating is tested according to standards established by E.C.C.A. (European Coil Coating Association), of which 3A Composites are a member.
CONSTRUCTION

ALUCOBOND® Fixed Cassette System

ALUCOBOND® Alucofix System

Vertical Section

Vertical Section

Horizontal Section

Horizontal Section
Comparison of the thickness and panel weight with equal rigidity

The composite structure of ALUCOBOND® – two aluminium cover sheets and a plastic or mineral filled core – results in an impressive strength-to-weight ratio, even when comparing large panel sizes.

Even though the panels are very lightweight, which makes them easy to transport and handle in the factory and on site, they are highly rigid and strong, thus making the most suitable for exterior wall cladding. When properly designed and installed, ALUCOBOND® panels will keep their shape and remain flat for life, even when exposed to extreme temperature changes.

Wind load and permissible panel sizes

The graph for 4 mm thick ALUCOBOND® indicate the maximum permissible panel length without having to add a stiffener based on applicable design wind load and panel width.

- Permissible design stress =55 MP, safety factor 1.65 is taken into account.
- Values apply to 4-side supported panels.
- Values for other systems upon request.
### INTERNATIONAL FIRE CLASSIFICATIONS

<table>
<thead>
<tr>
<th>Country</th>
<th>ALUCOBOND® PLUS</th>
<th>ALUCOBOND® A2</th>
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### REINFORCING FIRE SAFETY IN AUSTRALIA

Fire protection for your building begins at the planning stage. Minimising fire risk, particularly in places with significant human traffic such as commercial offices, major sporting arenas, hospitals, schools, apartments and high rise buildings has become increasingly complex and challenging.

Globally, suppliers, architects and building owners have a ‘duty of care’ and are required to meet the stringent regulations aimed at protecting the building structure, surrounding environments and more importantly the inhabitants or visitors to the building.

When making your product and system selection, it’s imperative that you fully understand the product that you are looking to choose and ensuring that it is actually safe.

As a trusted supplier, HVG Facades has and continues to provide the knowledge, technology and compliance required to assist you in your selection process. Safety is paramount and we aim to ensure you are kept up to date with correct information and are offered products that are best suited to your project needs.

Technical Support | Contact: technical@hvgfacades.com.au

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![ABC CodeMark Certification](image)

**Fire Behaviour - Australian Fire Classification**

ABCB CodeMark Certification

Cert No. GM CM 30070

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Above | Calibre Apartments
Architect | Interfandi Mantesso Architects
Naturally ALUCOBOND®

During the life cycle of ALUCOBOND® composite material, no substances containing CFC, VOC’s are set free at any time. The core material does not contain any nitrogen, chlorine or sulphur. Therefore, selecting ALUCOBOND® for projects which require environmentally friendly materials is a natural choice.

Environment, Health & Safety

For ALUCOBOND®, effective, continuous environmental protection is a main priority. It is of utmost importance to preserve natural resources in order to ensure a livable tomorrow for future generations. It commits itself to continuous self-improvement programmes for environmental protection, many of which go above and beyond government regulations. It is also in this area that ALUCOBOND® strives to be a leader in its field. All Alucobond finishes are RoHS Compliant, and contain no Lead, Mercury, Cadmium or Chromium.

3A Composites were one of the first companies to develop its own environmental management system, which is regularly audited by independent auditors. The successful certification according to EN ISO 14001 speaks for itself.

Recycling

ALUCOBOND® can be fully recycled, ie. Both the core material and aluminium skins can be recycled and reused for the production of new material.

Storage / Handling

- Protect ALUCOBOND® pallets during storage against rain, seeping in of moisture and condensation.
- Only pallets of identical size should be stacked, with a maximum of 6 pallets stacked on top of each other.
- Avoid storing the product for more than 6 months, as it may become difficult to remove the protective foil.
- When stacking the panels, nothing should be placed in between them, as this could produce marks on the panels.

Installation

To avoid possible reflection differences (for Metallic, Special Effect, NaturAL, Terra, Spectra, Urban and Legno surfaces), it is recommended to install the panels in the same direction as marked on the protective peel-off foil. Colour variations may occur between panels originating from different production batches. To ensure colour consistency, the total requirement for a project should be placed in one order.

Protective Foil

To avoid glue residuals on the surface of the panels due to UV radiation, it is recommended to remove the protective foil as soon as possible after the installation. The protective foils and the panel surfaces must not be marked using ink (marker), adhesive tapes or stickers, as the lacquered surfaces could be damaged by solvents or plasticisers. Make sure to remove the protective foil as soon as possible after installation as prolonged exposure to the elements could make the foil difficult to remove.

Cleaning and Maintenance

Regular cleaning by companies qualified and experienced in the cleaning and maintenance of building façades not only maintains the aesthetic and representative finish of stove lacquered surfaces but also preserves their value and service life by removing dirt and aggressive deposits that are not washed away by rainwater.

Cleaning Cycle

The ALUCOBOND® panels should be cleaned on a regular basis. Generally, once a year is sufficient to maintain the painted surface in optimum condition, however this will be dependent on the location of the building and the amount of dirt and airborne pollutants in that area.

For façades close to a marine environment or areas subject to exposure to severe industrial or chemical airborne pollutants, a more regular cleaning regime should be adopted to avoid the accumulation of salt, industrial or chemical pollutants on the painted surface.

Maintenance Logs should be maintained to record cleaning schedules, procedures, cleaning agents used, and any visible change in the panel surface finish.

Warranty

ALUCOBOND® stands for high quality and longevity. Warranties according to the product specification and approved field of application can be obtained upon request.
Create the difference.

VICTORIA:
25 West Park Drive
Derrimut VIC 3026
Tel: (03) 9394 3130

NEW SOUTH WALES:
29 Henderson Street
Turrella NSW 2205
Tel: (02) 9508 4600

QUEENSLAND:
128 Mica Street Carole
Park QLD 4500
Tel: (07) 3718 2360

WESTERN AUSTRALIA:
72 Bushland Ridge
Bibra Lake WA 6163
Tel: (08) 9494 0100

SOUTH AUSTRALIA:
57 Barnes Avenue
Marleston SA 5033
Tel: (08) 8113 6000

EMAIL: sales@hvgfacades.com.au
WEBSITE: www.hvgfacades.com.au

ALUCOBOND® is manufactured by 3A Composites GmbH, 78224 Singen / Germany
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