

DESIGN REDEFINED

**BENCHMARK
EVOLUTION**

FAÇADE &
ROOF SYSTEMS





IT IS ALL IN THE DETAIL

BENCHMARK Evolution is a sleek and inspirational range of flat, secret-fix insulated panels with intricate detailing which has already established itself as a leading premium range amongst designers and architects.

From multiple grooves and refined recesses to prominent reveals and curved elevations, the architectural detailing available throughout the range enables you to realise any vision and surpass it.

Our versatile products deliver exceptional all-round performance in the field of sustainability, fire safety and thermal insulation. Available in an impressive choice of colour coatings and finishes, BENCHMARK Evolution epitomises design excellence at its very best.

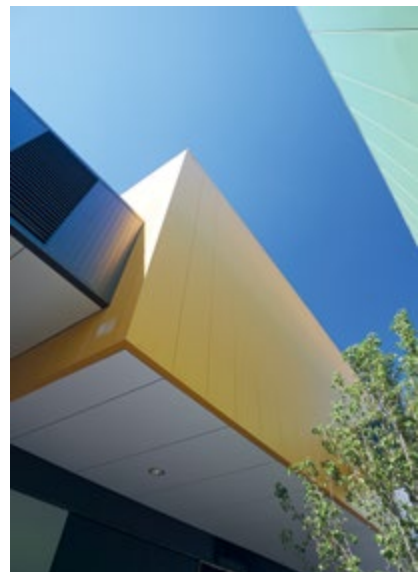
MARKET SECTORS

A SOLUTION FOR EVERY MARKET SECTOR

The endless versatility of the BENCHMARK Evolution range means it is already proving to be the first choice façade solution across a broad range of market sectors including Education, Health, Hotel & Leisure, Industrial, Offices, Private Housing and Retail.

Whatever your design requirements are, from standard designs to developing the next iconic landmark, the BENCHMARK

Evolution range is equipped with an infinite array of surface textures, joint details, corner features and colours to ensure the desired effect is achieved. Furthermore, because the panels can be mixed and matched, the BENCHMARK Evolution range is the ideal solution for use on any new build development, and can also be easily integrated onto existing structures for refurbishment projects.





COMMUNITY & AMENITY
EDUCATION
HEALTH
HOTEL & LEISURE
INDUSTRIAL
INFRASTRUCTURE
OFFICES
PRIVATE HOUSING
RETAIL



Image courtesy of Clive Smith, Baily Garner LLP

PRODUCT RANGE

BENCHMARK EVOLUTION RANGE



BENCHMARK Evolution Axis

BENCHMARK Evolution Multi-Groove

BENCHMARK Evolution Recess

BENCHMARK Evolution Reveal

BENCHMARK Evolution Reveal Recess

PRODUCT COMPATIBILITY CHART

	Panel Dimensions			Curves & Preformed Corners				Joint Options				
	Width (mm)	Length (m)**	Thicknesses (mm)	Curved Panel & Corner (Hz)	Curved Panel & Corner (Vt)	Cranked / Mitred (Hz)	Cranked / Mitred (Vt)	Steel Omega Section Joint Trim - with Flush or Recess Insert (Vt)	Aluminium Raised Caps (Vt & Hz)	Aluminium Omega Section Joint Trim - with Flush or EPDM Gasket Insert (Vt)	NEW Recessed Aluminium Extrusion (Vt)	Recessed EPDM Black Gasket - 10mm or 20mm (Vt)
BENCHMARK Evolution Axis	600 - 1000* in 1mm increments	1.0 - 17	45, 60, 70, 80, 100, 120, 140 & 150	●	●	●	●	●	●	●		
BENCHMARK Evolution Multi-Groove	1000	1.8 - 17	45, 60, 70, 80, 100, 120 & 140			●		●	●	●		
BENCHMARK Evolution Recess	600 - 1000* in 1mm increments	1.8 - 8	45, 60, 70, 80, 100, 120, 140 & 150	●		●	●				●	●
BENCHMARK Evolution Reveal	600/900/1000	1.8 - 17	45, 60, 70, 80, 100 & 120			●	● ^{††}	● [†]				
BENCHMARK Evolution Reveal Recess	600/900/1000	1.8 - 8	Same as above			●	● ^{††}				●	●

* Larger cover widths may be available upon request, but require a longer lead time

** Panels less than 1.8m long are subject to an additional charge

† Steel scallops required

†† Crank cannot be located along the reveal

Please note abbreviations: (Vt) = Vertically & (Hz) = Horizontally

BENCHMARK EVOLUTION AXIS

BENCHMARK Evolution Axis is a highly streamlined, sleek unprofiled insulated panel system; the perfect solution if you are looking to achieve a minimalist façade on buildings with large flat surface areas. Smooth and flawless in appearance, BENCHMARK Evolution Axis is available in 1mm width increments from 600mm to 1000mm, and can be installed either vertically or horizontally.



PRODUCT RANGE

BENCHMARK EVOLUTION MULTI-GROOVE

BENCHMARK Evolution Multi-Groove is a premium flat panel that has two grooves engineered into its surface, thereby creating subtle shadow lines on the building's façade and an illusion of using smaller panel widths, but without the installation time constraints. BENCHMARK Evolution Multi-Groove is available in 1000mm wide panels, with two grooves with equal spacing's of 333mm and can be installed either vertically or horizontally.



BENCHMARK EVOLUTION RECESS

BENCHMARK Evolution Recess features depth and dimension through the folding of the panel edge and the insertion of a 10mm or 20mm gasket between the panels, creating a unique 3D effect.

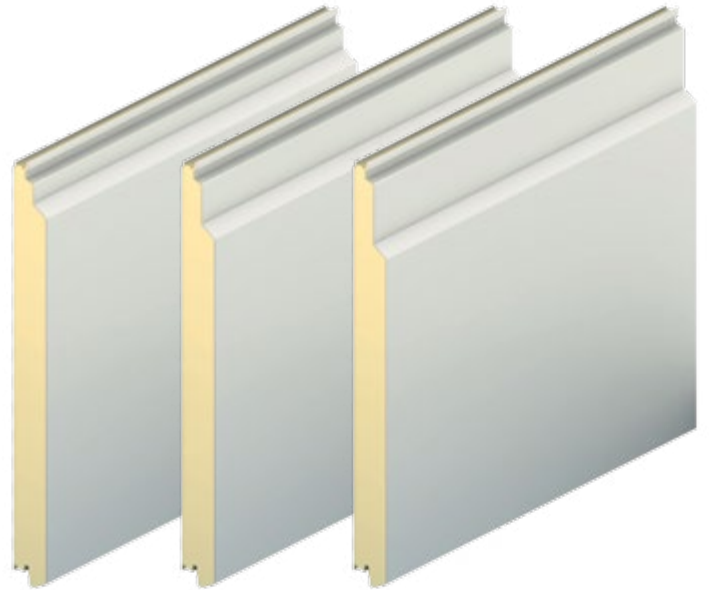
With this advanced system there is no need for omega joint trims; the result is an extremely neat and minimalistic finish of the façade, with an illusion of a cassette system. With increased panel widths in just 1mm increments between 600mm and 1000mm, the freedom to explore and create striking bespoke façade designs is now a reality.



PRODUCT RANGE

BENCHMARK EVOLUTION REVEAL

BENCHMARK Evolution Reveal allows for the creation of striking reveals through the installation of a standard panel. There are three reveal options to choose from: 50mm, 100mm and 150mm, creating a real contrast in depth. This system is completed using a steel omega section joint trim, which can be specified in the same colour as the panel or in any other colour from the range. With widths available in 600mm, 900mm and 1000mm, BENCHMARK Evolution Reveal highlights the breadth of design versatility across the BENCHMARK Evolution range.



BENCHMARK EVOLUTION REVEAL RECESS

As the name suggests, BENCHMARK Evolution Reveal Recess is the combination of both BENCHMARK Evolution Reveal and BENCHMARK Evolution Recess. This is by far the most versatile product in the range, with a flexible reveal and a neat 3D recessed joint detail. BENCHMARK Evolution Reveal Recess ranges in widths of 600mm, 900mm and 1000mm.



JOINT OPTIONS

The series of alternative joint options available throughout the BENCHMARK Evolution range will help you achieve a variety of subtle or prominent features.



STEEL OMEGA SECTION JOINT TRIM

- Available with a flush (shown in black above) or recess steel insert
- Vertical application only

ALUMINIUM OMEGA SECTION JOINT TRIM

- Available with a flush aluminium insert or EPDM black gasket (black aluminium and EPDM gasket shown above)
- Vertical application only

ALUMINIUM RAISED CAPS

- Vertical and horizontal applications



**RECESSED ALUMINIUM
EXTRUSION**

- Vertical application only

**RECESSED EPDM
BLACK GASKET**

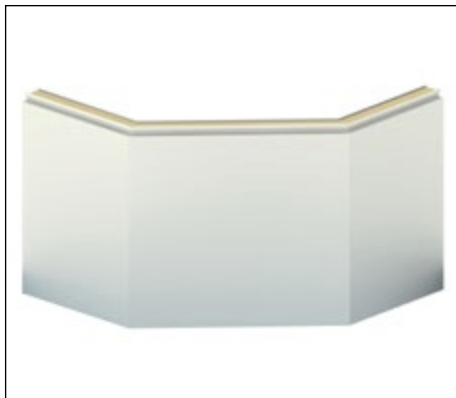
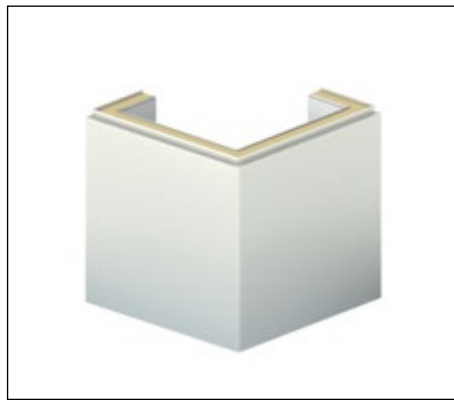
- 10mm or 20mm options available
- Vertical application only

CURVES & PREFORMED CORNERS

We recognise that elegantly curved elevations and neatly formed secret-fix corners are essential to the overall aesthetics of a building. The appearance of a building can be further enhanced through architectural detailing such as recessed / boxed window details, where a cranked panel can seamlessly create depth to help implement such a feature.

BENCHMARK Evolution Axis panels can be curved both vertically and horizontally to create large sweeping elevations, as well as subtle corner sections. In addition, bespoke cranked / mitred internal and external corner units can be created. Multiple cranks / mitres can also be applied to the same panel to achieve a truly bespoke solution.

For advice and help designing your preformed corners, please contact the BENCHMARK Technical Department.



ALL THE ADVANTAGES OF AN INSULATED PANEL

EASE & SPEED OF BUILD

Unlike traditional multiple-component rainscreen systems, the BENCHMARK Evolution range of panels are all single-component, factory-assembled quality panels that are supplied and delivered by just one company. For this reason, our panels can be quickly and easily installed with the aid of mechanical lifting equipment through a single-fix installation process.

The rapid speed of installation can help to reduce the risk of accidents, as less time is spent working at height. It also means that the building is weather-tight sooner, achieving a significant reduction in overall build programme and cost.

LPCB & FM APPROVED

The BENCHMARK Evolution range has been tested and approved by the Loss Prevention Certification Board (LPCB) and Factory Mutual (FM). Our systems are widely recognised by investors, property insurers, designers and contractors for their superior fire performance.

SUPERIOR PERFORMANCE

Manufactured from the highest quality materials, the BENCHMARK Evolution range has been designed to deliver exceptional lifetime performance for durability, fire prevention, sustainability and thermal insulation.

The panels comply with current building and fire regulations, achieving a Part L2 airtightness of less than $3\text{m}^3/\text{hr}/\text{m}^2$ and are fully recyclable at the end of their life.

With factory-engineered precision we can deliver guaranteed thermal integrity for the lifetime of the building.

The BENCHMARK Evolution range is supplied with the BENCHMARK Guarantee that covers the structural, thermal and coating performance for up to 25 years.



Images courtesy of Architect: Toth-Wallyn

COLOUR RANGE

The BENCHMARK Evolution colour palette comprises three ranges: Kingspan Altaris, highly polished and two tone colour coatings; Kingspan Textured, coarse rendered effect coatings; and Kingspan Spectrum, smooth solid, metallic & diamond coatings.

	Kingspan Textured Signal White RAL 9003		Kingspan Altaris Onyx White Green		Kingspan Altaris Traffic White RAL 9016
	Kingspan Altaris Onyx White Blue		Kingspan Altaris Brilliant Champagne Metallic		Kingspan Altaris Onyx White Gold
	Kingspan Textured Cream RAL 1015 BS 10C31		Kingspan Altaris Oyster White RAL 1013		Kingspan Altaris Pyrite Bronze Gold
	Kingspan Textured Mustard RAL 1001		Kingspan Altaris Pyrite Gold Silver		Kingspan Altaris Pyrite Gold Grey
	Kingspan Altaris Pyrite Gold Olive		Kingspan Altaris Copper Metallic		Kingspan Altaris Jeweller Canyon Copper
	Kingspan Spectrum Solid Carnelia RAL 3009		Kingspan Altaris Traffic Red RAL 3020		Kingspan Altaris Ferrari Red
	Kingspan Textured Autumn RAL 040 50 20		Kingspan Altaris Amethyst Beige Grey Purple		Kingspan Altaris Amethyst Bordeaux Purple Green
	Kingspan Spectrum Metallic Opal KC 400		Kingspan Altaris Ultramarine RAL 5002		Kingspan Spectrum Solid Lazuli RAL 5002
	Kingspan Spectrum Diamond Sapphire Blue		Kingspan Spectrum Solid Zircon RAL 5014		Kingspan Altaris Moonstone Blue Green Gold
	Kingspan Spectrum Solid Greenrock RAL 6003		Kingspan Spectrum Metallic Topaz KC 200		Kingspan Altaris Jeweller Cosmonauts Titanium
	Kingspan Spectrum Diamond Silver Topaz		Kingspan Altaris Sparkling Silver		Kingspan Altaris Jeweller Aerospace Titanium
	Kingspan Altaris Silver Metallic		Kingspan Altaris Brilliant Silver Metallic		Kingspan Altaris Grey Metallic
	Kingspan Spectrum Solid Adventura RAL 7000		Kingspan Textured Adventura RAL 7000		Kingspan Textured Silver Grey RAL 7001
	Kingspan Textured Merlin Grey RAL 180 40 05 BS 18B25		Kingspan Spectrum Solid Basalt RAL 7012		Kingspan Spectrum Solid Onyx RAL 7016
	Kingspan Spectrum Diamond Diamond Black		Kingspan Altaris Shark Black		Kingspan Altaris Jeweller Galactic Diamond

COLOUR RANGE

	Kingspan Altaris Pure White RAL 9010		Kingspan Spectrum Solid Pearl RAL 9010		Kingspan Textured Pearl RAL 9010
	Kingspan Textured Magnolia BS 08B15		Kingspan Altaris Bronze Metallic		Kingspan Spectrum Solid Citrine RAL 1015
	Kingspan Altaris Champagne Metallic		Kingspan Textured Mushroom RAL 080 70 10 BS 10B19		Kingspan Spectrum Metallic Beigestone RAL 1035
	Kingspan Altaris Gold Metallic		Kingspan Altaris Jeweller Glamorous Gold		Kingspan Textured Sunflower Yellow BS 10E55
	Kingspan Altaris Dark Copper Metallic		Kingspan Altaris Pyrite Copper Orange Gold		Kingspan Spectrum Solid Goldstone RAL 2013
	Kingspan Altaris Ruby Red RAL 3003		Kingspan Textured Strawberry Red RAL 3018		Kingspan Altaris Pyrite Strawberry Gold
	Kingspan Altaris Amethyst Purple Red		Kingspan Spectrum Diamond Amethyst Purple		Kingspan Altaris Amethyst Purple Grey
	Kingspan Spectrum Solid Iolite RAL 5011		Kingspan Spectrum Solid Kyanite RAL 5010		Kingspan Textured Sky Blue RAL 5016
	Kingspan Altaris Blue Metallic		Kingspan Altaris Azurite Blue Green		Kingspan Spectrum Diamond Emerald Green
	Kingspan Spectrum Metallic Silver RAL 9006		Kingspan Spectrum Solid Moonstone RAL 7035		Kingspan Textured Moonstone RAL 7035
	Kingspan Altaris Jeweller Samurai Stainless		Kingspan Spectrum Metallic Obsidian RAL 9007		Kingspan Spectrum Metallic Graphite RAL 9023
	Kingspan Altaris Jeweller Sterling Silver		Kingspan Altaris Dark Anthracite Metallic		Kingspan Spectrum Diamond Pearl Silver
	Kingspan Altaris Stone Grey RAL 7030		Kingspan Altaris Dark Grey Metallic		Kingspan Spectrum Metallic Greyrock KC 100
	Kingspan Altaris Anthracite Grey RAL 7016		Kingspan Altaris Jet Black RAL 9005		Kingspan Spectrum Solid Jet RAL 9005

The printed colours are as accurate as possible but are for guidance purposes only. Please request a swatch sample from the Kingspan Marketing Department to view accurate colour and texture prior to specification. For minimum order quantity and / or lead time information, contact your sales person.

SUPPORT SERVICES



WE ARE WITH YOU FROM CONCEPT TO COMPLETION

TECHNICAL ADVICE

The smooth running of your project is of paramount importance and our technical advisory service is on-hand to assist you with any building design, application or installation issues that may arise. Whether you are seeking help and advice on testing, CWCT or fire performance, our experienced team can provide the technical designs and economical construction solutions for a vast range of projects, including any that require complex internal environments.

MARKETING SUPPORT

Our specialist marketing services team understands the importance of working to tight deadlines and will assist with providing samples and literature on request, ensuring there are no delays with planning or client approval of material. In addition, we also provide supplementary marketing support through the use of project case studies and if required, relevant imagery can be provided on request.

FIELD SERVICE SUPPORT ENGINEERS

We recognise that our product range is evolving all the time and in order to help you understand the latest updates and modifications, we have established a series of free contractor training sessions on the installation of new and existing products at our specially-designed facilities. In addition, we also offer a site inspection service throughout the construction stage as well as advice on mechanical handling solutions.

CUSTOMER SERVICE & SALES

Customer Service will always remain our top priority and to ensure we maintain our high standards, we conduct regular surveys to assess every aspect of our service offering. This means you can be assured we are committed to processing orders quickly and efficiently to guarantee deliveries are made on-time, in full and arrive in immaculate condition.

AREA SALES MANAGERS

Our fully trained and highly experienced BENCHMARK Sales Team is available to provide advice, presentations and a dedicated one-to-one service to ensure your vision becomes a reality. Whether you wish to discuss architectural detailing or product integration, our team is on-hand to assist you every step of the way.

To find your nearest area manager, simply visit www.kingspanbenchmark.com/contact-us

BENCHMARK SUPPORT

TECHNICAL SERVICES

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A
TURNING
POINT
IN
BUILDING
DESIGN

One Single Component

Secret Fix Solution

One Supplier

17m Panel Length

Linear

Guarantee

INTEGRATED

Ancillaries

HIGH PERFORMANCE

Premium Insulated Panel

Rapid Installation

600 - 1000mm Panel Widths

CURVED

LPCB Approved

THERMALLY EFFICIENT

BENCHMARK Evolution

Design Flexibility

INTRICATE DETAILING

One Delivery

FM Approved

Streamline

Support SYSTEM

Thermal Continuity

Multi-Groove

Variable Reveals

Seamless Recessed Joints

3D-EFFECT

Metallic

Versatile

Premium Colour Range

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