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.

Images courtesy of Lakesmere Ltd
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.
MARKET SECTORS

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**
- Width (mm): 600 - 1000 in 1mm increments
- Length (m): 1.0 - 17
- Thicknesses (mm): 45, 60, 70, 80, 100, 120, 140 & 150
- Curved Panel & Corner (Hz)
- Curved Panel & Corner (Vt)
- Cranked / Mitred (Hz)
- Cranked / Mitred (Vt)

**BENCHMARK Evolution Multi-Groove**
- Width (mm): 1000
- Length (m): 1.8 - 17
- Thicknesses (mm): 45, 60, 70, 80, 100, 120 & 140
- Curved Panel & Corner (Hz)
- Curved Panel & Corner (Vt)
- Cranked / Mitred (Hz)
- Cranked / Mitred (Vt)

**BENCHMARK Evolution Recess**
- Width (mm): 600 - 1000 in 1mm increments
- Length (m): 1.8 - 8
- Thicknesses (mm): 45, 60, 70, 80, 100, 120, 140 & 150
- Curved Panel & Corner (Hz)
- Curved Panel & Corner (Vt)
- Steel Omega Section Joint Trim - with Flush Insert (Vt)
- Aluminium Raised Caps (Vt & Hz)
- Aluminium Omega Section Joint Trim - with EPDM Gasket Insert (Vt)
- NEW Recessed Aluminium Extrusion (Vt)

**BENCHMARK Evolution Reveal**
- Width (mm): 600/900/1000
- Length (m): 1.8 - 8
- Thicknesses (mm): 45, 60, 70, 80, 100 & 120
- Curved Panel & Corner (Hz)
- Curved Panel & Corner (Vt)
- Steel Omega Section Joint Trim - with EPDM Gasket Insert (Vt)
- Aluminium Raised Caps (Vt & Hz)

**BENCHMARK Evolution Reveal Recess**
- Width (mm): 600/900/1000
- Length (m): 1.8 - 8
- Thicknesses (mm): Same as above
- Curved Panel & Corner (Hz)
- Curved Panel & Corner (Vt)
- Steel Omega Section Joint Trim - with EPDM Gasket Insert (Vt)
- Aluminium Raised Caps (Vt & Hz)

---

**PRODUCT COMPATIBILITY CHART**

<table>
<thead>
<tr>
<th>Panel Dimensions</th>
<th>Curves &amp; Preformed Corners</th>
<th>Joint Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width (mm)</strong></td>
<td><strong>Length (m)</strong></td>
<td><strong>Thicknesses (mm)</strong></td>
</tr>
<tr>
<td>600 - 1000</td>
<td>1.0 - 17</td>
<td>45, 60, 70, 80, 100, 120, 140 &amp; 150</td>
</tr>
<tr>
<td>600 - 1000</td>
<td>1.8 - 8</td>
<td>45, 60, 70, 80, 100, 120, 140 &amp; 150</td>
</tr>
<tr>
<td>600 - 1000</td>
<td>1.8 - 8</td>
<td>45, 60, 70, 80, 100, 120, 140 &amp; 150</td>
</tr>
<tr>
<td>600/900/1000</td>
<td>1.8 - 8</td>
<td>Same as above</td>
</tr>
</tbody>
</table>

---

* 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.
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.
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.
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
FABRICATIONS

RECESSED ALUMINIUM EXTRUSION
• Vertical application only

RECESSED EPDM BLACK GASKET
• 10mm or 20mm options available
• Vertical application only
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.
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 3m³/hr/m² 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.
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.

<table>
<thead>
<tr>
<th>Kingspan Textured</th>
<th>Kingspan Altaris</th>
<th>Kingspan Altaris</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal White RAL 9003</td>
<td>Onyx White Green</td>
<td>Traffic White RAL 9016</td>
</tr>
<tr>
<td>Onyx White Blue</td>
<td>Brilliant Champagne Metallic</td>
<td>Onyx White Gold</td>
</tr>
<tr>
<td>Cream RAL 1015</td>
<td>Oyster White RAL 0013</td>
<td>Pyrite Bronze Gold</td>
</tr>
<tr>
<td>Mustard RAL 1001</td>
<td>Pyrite Gold Silver</td>
<td>Pyrite Gold Grey</td>
</tr>
<tr>
<td>Pyrite Gold Olive</td>
<td>Copper Metallic</td>
<td>Jeweller Canyon Copper</td>
</tr>
<tr>
<td>Kingspan Spectrum Solid</td>
<td>Kingspan Altaris</td>
<td>Kingspan Altaris</td>
</tr>
<tr>
<td>Carnelia RAL 3009</td>
<td>Traffic Red RAL 3002</td>
<td>Ferrar Red</td>
</tr>
<tr>
<td>Autumn RAL 040 50 20</td>
<td>Amethyst Beige Grey Purple</td>
<td>Amethyst Bordeaux Purple Green</td>
</tr>
<tr>
<td>Kingspan Spectrum Metallic</td>
<td>Kingspan Altaris</td>
<td>Kingspan Altaris</td>
</tr>
<tr>
<td>Opal KC 400</td>
<td>Ultramarine RAL 5002</td>
<td>Moonstone Blue Green Gold</td>
</tr>
<tr>
<td>Sapphire Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenrock RAL 6003</td>
<td>Topaz KC 200</td>
<td>Jeweller Cosmonauts Titanium</td>
</tr>
<tr>
<td>Silver Topaz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kingspan Altaris</td>
<td>Kingspan Altaris</td>
<td>Kingspan Altaris</td>
</tr>
<tr>
<td>Silver Metallic</td>
<td>Brilliant Silver Metallic</td>
<td>Grey Metallic</td>
</tr>
<tr>
<td>Kingspan Spectrum Solid</td>
<td>Kingspan Textured</td>
<td>Kingspan Spectrum Diamond</td>
</tr>
<tr>
<td>Adventura RAL 7000</td>
<td>Adventura RAL 7000</td>
<td>Diamond Black</td>
</tr>
<tr>
<td>Mark Grey RAL 180 40 05</td>
<td>Basalt RAL 7012</td>
<td>Shark Black</td>
</tr>
<tr>
<td>Kingspan Spectrum Diamond</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diamond Black</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**By Kingspan**
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.
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
Tel: +44 (0) 800 970 9036 (UK)
Tel: +353 (0) 42 969 8529 (Ireland)
Email: technical@kingspanbenchmark.com

MARKETING SERVICES
(SAMPLES AND LITERATURE)
Tel: +44 (0) 1352 716170 (UK)
Tel: +353 (0) 42 969 8555 (Ireland)
Email: info@kingspanbenchmark.com

QUOTATION HOTLINE
Tel: +44 (0) 1352 716100 (UK)
Tel: +353 (0) 42 969 8500 (Ireland)
Email: enquiries@kingspanbenchmark.com

SALES
Tel: +44 (0) 1352 716100 (UK)
Tel: +353 (0) 42 969 8500 (Ireland)
Email: info@kingspanbenchmark.com