

Standing up to demanding environments

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Ambitious high-end construction projects in Bahrain and Macau using render as the central fabric of its facade, created greatly contrasting but equally impressive and memorable environments providing the comfort and function inherently required. This amplifies the challenges faced by designers when choosing building components that can transcend the extremes of their local climates.

Wynn Palace in Macau and The Walk in Bahrain demonstrate how Renderplas PVC beading delivers that performance in contrasting environments. Both installations needed to provide robust edge protection, resist weathering, maintain appearance and reduce the maintenance burden without compromising installation practicality.

Luxury finish

At Wynn Palace, Renderplas supplied more than 38 km of PVC external render beads for the 29-storey luxury resort development in Macau, often described as the “Las Vegas of China”. The multi-billion-dollar complex is centred around a dramatic rendered facade where finish quality and long-term appearance are crucial.

Specified in stylish ivory, Renderplas PVC stop and corner beads complemented the resort’s facade while providing a durable reinforced edge at door frames, window reveals and transitions between facade materials. Manufactured from 75% recycled exterior grade, impact resistant, UV stable plastic, the beads were selected as a

strong and cost-effective alternative to stainless steel profiles and are guaranteed not to stain or corrode over time.

The project also highlighted practical installation advantages. PVC beads are lighter to handle and transport, more damage-resistant as well as safer and easier to cut and install on site, helping to reduce construction waste. The finished facade achieved a clean, durable finish intended to stand the test of time.

Durability by design

The Walk in East Riffa, Bahrain, presented a different challenge. The country's first open-air mall combines high-end retail, cafés, restaurants and an art gallery within a bold geometric structure formed by large external render panels. Here, edge detailing was not simply functional, it formed part of the architectural design itself.

Renderplas PVC stop and corner beads were specified to create crisp, durable edges to the external render panels that define the building's distinctive appearance. A total of 12 km of 6 mm stop beads and 2.5 km of 4 mm corner beads were installed across the project. Designed to remain visible, the bead edges contribute directly to the aesthetics of the facade.

Brilliant white PVC beading was selected to achieve the desired finish without the need for painting. In Bahrain's intense summer heat and high humidity, non-corrosive and UV resistant PVC also provided a practical long-term solution. The specification supported the need for minimal maintenance while retaining the sharpness of the geometric design.

Delivering key priorities

As with Wynn Palace, installation practicality formed part of the specification logic. Renderplas PVC profiles offer a simple, one-man solution for creating straight, durable joints, corners and edges. The material is impact resistant and will not discolour over time, helping exposed edges continue to complement the facade finish for the life of the render.

The two projects represent different expressions of the same performance requirement. Wynn Palace demonstrates the demands of a high-end setting, where facade finishes are expected to maintain a premium appearance over time. The Walk highlights the challenges of a high-traffic commercial destination, where exposed render details form part of the architecture while also being subjected to ongoing use and environmental exposure.

The constant in both projects was the underlying performance requirement to protect render edges, maintain appearance over time, resist UV exposure and corrosion risks, as well as minimising maintenance demands. Renderplas PVC beading delivered that consistency while also improving handling, transport and installation compared with metal alternatives.

In high-end settings, these characteristics protect finish quality over time; they also maintain edge integrity and appearance despite climate stress. The result is a consistent approach to durability, longevity, and ease of maintenance, regardless of whether the pressure comes from design scrutiny or environmental conditions.

Image captions:

Image 1: Wynn Palace in Macau features ivory Renderplas PVC beads, protecting render edges while preserving the resort's premium facade finish.



Image 2: The Walk in Bahrain uses white Renderplas PVC beads to create crisp rendered panels with UV-resistant, non-corrosive performance.

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About Renderplas

Renderplas was formed in 1990 to offer the plastering industry a new concept in beading. The first manufacturer of PVCu beads in the UK, Renderplas is the leading exponent in the field.

The business sets out to address the shortcomings of traditional profiles by designing a range of beads in PVCu to suit the British and Continental market. The key benefit of PVCu beads is that they use the most cost-effective, non-corrosive material to produce robust plasterer friendly beads. Renderplas PVCu beads conform to BS EN 13914-1:2016 - External Rendering.

Renderplas products are designed to be unobtrusive with an extremely narrow arris, making it ideal for scratched or scraped finishes. Very popular with major house builders, its beads are available in white or ivory as standard to blend with most coloured renders. However, in order to give architects and contractors even more freedom to use through-coloured renders in more vibrant colours, a range of beads in 7 further colours are also available for popular render depths.

Used internally, whether, in conjunction with wet plastering or dry lining, they will not stain during lengthy drying out periods and offer superior protection against impact in heavy traffic areas.

By specifying a Renderplas PVCu bead, the problems associated with traditional beads and the aggravation of costly callbacks are avoided. Two different CAD file formats are available for Renderplas profiles from the Downloads page of its web site. Alternatively, register with FastrackCAD to use all of their architectural database services.

Press contact:

Renderplas

Daniel Leedham-Green

Managing Director

Tel.: +44 (0)1299 888330

Daniel.Leedham-Green@renderplas.co.uk

PR agency:

DMA Europa

Ollie Eggleton

Progress House, Great Western Avenue, Worcester,
WR5 1AQ, UK

Tel.: +44 (0) 1905 917477

ollie.eggleton@markettechgroup.com

news.dmaeuropa.com