

EVALAM: Safety and Aesthetics for Long-Lasting Railings



In contemporary architecture, glass railings have moved beyond their purely functional role to become defining design elements. Open-edge solutions, where the glass remains fully exposed, are especially valued for their visual lightness and

are indeed widely specified in residential, commercial and public buildings. Yet this minimalist aesthetic introduces a critical technical challenge, namely delamination. Originating in the interlayer, delamination appears as whitish halos, bub-

bles or internal edge stains. Its presence compromises both appearance and structural integrity, often resulting in costly claims and even legal disputes. For architects, developers and fabricators, this risk underscores the need to prioritise techni-

cal performance alongside design intent. Material selection, therefore, must extend beyond visual criteria. It must meet demanding technical requirements that ensure long-term durability and reliability against environmental and climatic

Glass railings demand more than just aesthetics. EVALAM® highlights how its interlayers prevent delamination thanks to superior moisture resistance, thermal stability, and structural adhesion. Designed and certified for outdoor use, the solution ensures long-lasting transparency, reducing the risk of claims in exposed, open-edge architectural applications.



stress, providing confidence and peace of mind regarding potential post-sale claims. EVALAM® addresses pre-

cisely this challenge as a unique interlayer within its segment, given that it's engineered to reduce post-sale risks and support respon-

sible specification. Developed, formulated and certified specifically for outdoor applications, it is designed to eliminate delamination

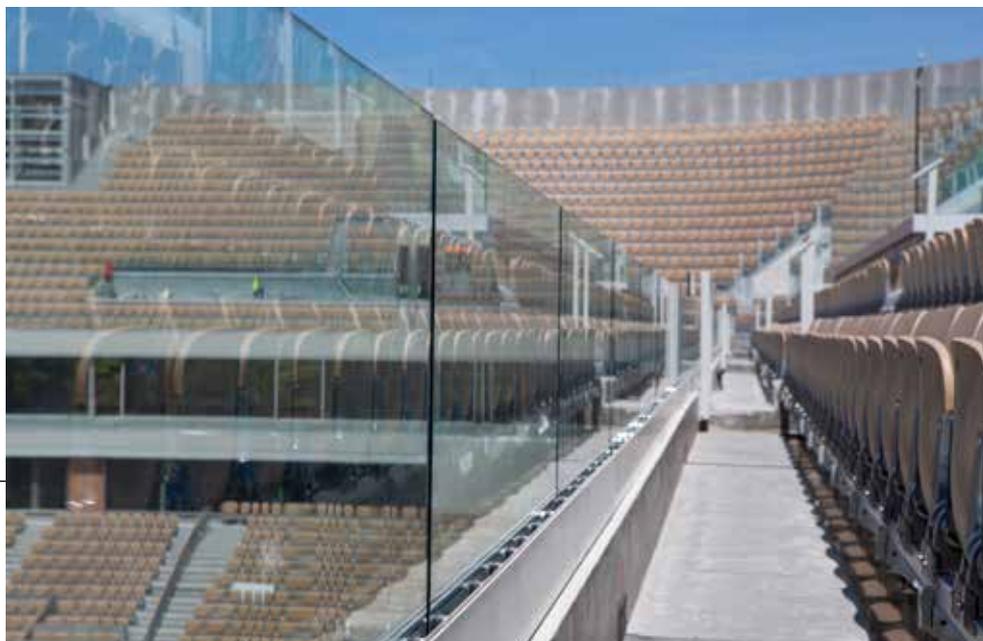
risks in open-edge exterior glass railings.

RELIABLE PERFORMANCE AGAINST MOISTURE

EVALAM® is non-hygroscopic, meaning it does not absorb ambient moisture. Compared to Other interlayer options available in the market it offers significantly higher resistance to humidity - a performance demonstrated through rigorous destructive testing to ensure long-term stability. Its outdoor certification makes it a reliable choice even in coastal climates or high-humidity environments. This is particularly relevant when paired with demanding fixing systems such as embedded 'U' profiles - whether visible or hidden - or glass machining anchors. While these systems deliver elegant visual solutions, they also increase the risk of water infiltration and accumulation, potentially leading over time to delamination, fogging or structural degradation.

THERMAL STABILITY

Formulated to withstand intense sunlight and high temperatures, EVALAM® maintains its physical properties without softening or deforming. The result is preserved appearance, transparency and durability, even in





LONG-LASTING TRANSPARENCY

An advanced formulation ensures exceptional optical clarity, free from yellowing, fogging or loss of sharpness, even after prolonged exposure to UV radiation and moisture. This stability is especially advantageous in laminated glass railings incorporating LED lighting, as it does not interfere with RGB White colour reproduction. In a market where aesthetic ambition must align with long-term performance, EVALAM® offers a technically robust solution for open-edge glass railings, thereby reinforcing both safety and design integrity.



extreme climates or on sun-facing façades.

OUTSTANDING STRUCTURAL ADHESION

During lamination, chemical crosslinking generates a

solid block capable of withstanding continuous mechanical stress without compromising the integrity of the laminated glass railing. Accredited tests show adhesion values that in many cases triple those of other mar-

ket solutions. This makes it particularly reliable for clamp or side-profile fixing systems, where the laminate must remain fully bonded to the glass - without delaminating, sliding or deforming over time.



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