



WORLD WIDE WEAVE

Functional, sustainable, attractive:

Solar protection systems made of metallic mesh

Targeted shade increases energy efficiency and creates a sense of well-being for building users while maintaining a high degree of transparency. The key here is to combine functionality with pleasing aesthetics. Metal meshes from GKD – GEBR. KUFFERATH AG therefore rank among the preferred materials for sustainable solar protection. They can withstand even the most extreme weather conditions. Alongside a reduction in solar input, the various solar protection systems combine interior comfort in the form of unrestricted outward views, natural ventilation and a high degree of daylight transmission with exceptional aesthetics. All solutions follow the respective architectural concept as full-surface solar protection "shields" or movable individual elements.

Horizontally hinged solar protection elements for example offer visually seamless encapsulation of the *Luna Apartments* in Melbourne, Australia. Thanks to individually selectable degrees of shading while maintaining the same high degree of transparency, the residents enjoy an incomparable ambience. The unrestricted views of the world outside allows them to enjoy the beauty of the surrounding area. At the same time, however, targeted lighting also provides protection from prying eyes outside the properties. **Horizontal sliding solar protection elements** clad the façade of the *École polytechnique fédérale de Lausanne* (EPFL). The motorized panels, which are arranged in groups, run on rails behind an accompanying fixed element. **Exterior, roll-up solar protection systems** on a residential building in Stuttgart protect the interior spaces from overheating without compromising the outward views of the surrounding countryside through the large glass



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façades. When rolled up, the cable-operated shutters disappear behind the fascia.

GKD selects the most suitable mesh type from a broad range of high-grade metallic fabrics based on design, location and climate requirements. Four types of mesh have proven particularly effective in numerous solar protection applications. For example, flexible **cable mesh** made of stainless steel is primarily suited to large-area fixed elements, although it can also be deployed just as effectively for roll-up solutions. **PC mesh**, available in stainless steel or aluminum, is typically used for movable and hinged solar protection elements or segmented façades. **Escale spiral mesh** offers optimum shading, particularly in three-dimensional applications. The tight-meshed **Licorne 13a spiral fabric** made of aluminum is particularly well suited to roll-up applications. Its excellent solar factor also makes it ideal for this use.



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As a privately owned technical weaver, GKD - Gebr. Kufferath AG is the world market leader in metal, synthetic and spiral mesh solutions. Four independent business divisions bundle their expertise under one roof: Industrial Mesh (woven metal mesh and filter solutions), Process Belts (belts made of mesh and spirals), Architectural meshes (façades, safety and interior design made of metal fabrics) and Mediamesh® (Transparent media façades). With its headquarter in Germany and five other facilities in the US, South Africa, China, India and Chile – as well as its branches in France,



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Spain, Dubai and worldwide representatives, GKD is close to markets anywhere in the world.

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