



WORLD WIDE WEAVE

Metallic mesh for an optimised energy performance of buildings

One of the world's most modern ski jumps has won the Architizer A+ Award: the Holmenkollen Fyr in Oslo. The design by Danish architect Julien de Smedt (JDS architects) got the jury's vote with its flowing form and delicate silhouette that almost appears to float. The cladding made of stainless steel mesh from GKD turns the ski jump into a real landmark of Nordic winter sports, which can be seen for miles with its targeted backlighting.

Today, metallic mesh is more valuable than ever before: architectural meshes made of stainless steel have proven themselves as an attractive solar protection and daylight-permeable screening solution and are gaining a new, value-oriented perspective in holistic terms. Starting from their manufacture, through their simple assembly and the varied range of functions right through to complete reusability at the end of the utilisation phase, they play a key role in the positive energy performance of a building. This is demonstrated by the ever-increasing number of properties with mesh facades that have been awarded the highest class of the LEED or BREEAM international Green Building certificates. In Doha the Education City campus obtained the sought-after LEED Platinum status. 7000 square metres of Omega 1520 mesh make a successful contribution as an effective sun protection system with a high degree of daylight transmission. The Lake Nona research centre in Orlando, USA, also secured this top-level certificate with a sun protection facade made of Escale 7 x 1 mesh from GKD. In Brazil the Tribunal de Justiça do Distrito Federal e dos Territórios (TJDFT), commonly known as the "green court", sets new standards as a Green Building with LEED Gold certificate. Again used as a solar protection mesh,



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Omega 1520 reduces the thermal load on the internal rooms and therefore also the costs associated with air conditioning. The decisive factor was once again the closed recycling cycle of stainless steel. The material is recyclable with virtually no loss of quality. In combination with its extraordinary durability, this sustainability contributes to the optimised energy balance. And what's more, GKD metallic mesh impresses in a multitude of multi-storey car parks all over the world with natural ventilation and lighting of the parking decks, as well as reliable fall guard protection. Their high resistance to wind loads up to Category 4 hurricanes also contribute to the long service life and low maintenance of woven facades – factors which are taken into account when analysing the durability of building materials. The transparent media facade system Mediamesh – stainless steel mesh with integrated LED profiles – combines all of these functional, energy-related and ecological properties with the economical scope of an advertising display offering brilliant colour rendering around the clock. The very latest LED technology and daylight sensors reduce the electricity consumption of Mediamesh facades to as little as a sixth of that of conventional displays. Spectacular examples of this application can be found in the Port Authority Bus Terminal, New York or the WinStar World Casino, Oklahoma.

GKD – WORLD WIDE WEAVE

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,



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South Africa, China, India and Chile – as well as its branches in France, Spain, Dubai and worldwide representatives, GKD is close to markets anywhere in the world.

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