

Press release

The climate-smart architecture film NOWOFLON ET 6235 Z-IR

The indoor climate control is no longer a matter of taste, but a competitive advantage: Optimized room temperatures lead to significantly longer residence times of customers, keeping stable buying power and a positive impact on the social climate and work performance. NOWOFOL Kunststoffprodukte from the Upper Bavarian in Germany presents a very simple solution to combine architectural creativity with future oriented building material: NOWOFLON ET 6235 Z-IR film.

The ASUE, The Working Group for Energy Conservation and Environmentally Friendly Energy Use estimates that by the year 2020 stationary air conditioners in Germany, which are primarily powered by electricity, will be using 7400 GWh, which is associated with the emission of close to 2.6 million tons of Co2 into the atmosphere. In the urban centres of southern countries the standard of living increases with advances in industrialization. Along with that comes an increase in energy usage for air conditioning – and there is no end in sight.

And yet, preventing this is really quite simple: Rather than using air conditioning to cool the inside of a facility, the heat is trapped before it can even reach the interior. This is accomplished through the use of an intelligent building covering - NOWOFLON ET6235 Z-IR. Win-win for both the environment and the wallet.

By inserting a single layer of NOWOFLON ET 6235 Z-IR-Film the heat transfer (G-Value) is reduced by almost half. The transparency is completely maintained through linear light transmission. As a further benefit there is no colour distortion, compared to that found in sunglasses. The annoying reflections can be reduced by more than half and the transmission of UV-light is reduced to the UV-A-level. The fact that, thanks to intrinsic pigmentation, the NOWOFLON ET6235 Z-IR film can be easily fused to the Standard-ETFE-Film opens the door to many uses for the material:

Architectural membranes with cooling qualities can be used to meet climate change head-on. By completely covering sports arenas located in hot areas with membranes which possess air conditioning qualities, new standards in the area of energy balance will be set. Along with the already mentioned excellent qualities this ETFE-film retains the original product attributes of longevity, flame resistance and mechanical strength. In addition this film can be printed with a wide variety of designs, just as standard ET film can. Even in this area there are no limits to the visual variations.

ETFE products are currently experiencing a global boom. Even the USA, traditionally oriented to glass and steel construction, has discovered the sustainable ease of ETFE membrane architecture. This may be due to the new Minnesota Vikings Stadium, which is being treated like a rock star by the press and visitors alike. Central and South America are currently investing in complete manufacturing systems for ETFE films.

NOWOFOL has been well known since 1971 for its extruded ETFE film with the highest mechanical properties. Within the last 30 years there have been a lot of famous projects built with NOWOFLON ET 6235 Z film. For example at Centerparc Gennep (year 1980), ecological Eden Project Cornwall UK (year 2000) or, so far the biggest project Dolce Vita Lisboa (2009), a shopping mall. The advantageous use of ETFE-film in the construction of sports stadiums was discovered in Germany during preparations for the 2006 FIFA world cup: The Allianz Arena instantly became a Munich landmark thanks in part to the innovative design, lightness and functionality, but above all due to the transparent beauty of the structure.

The product launch NOWOFOL presents a new interactive information platform especially for ETFE membrane film. Visit www.etfe-film.com for more information.

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