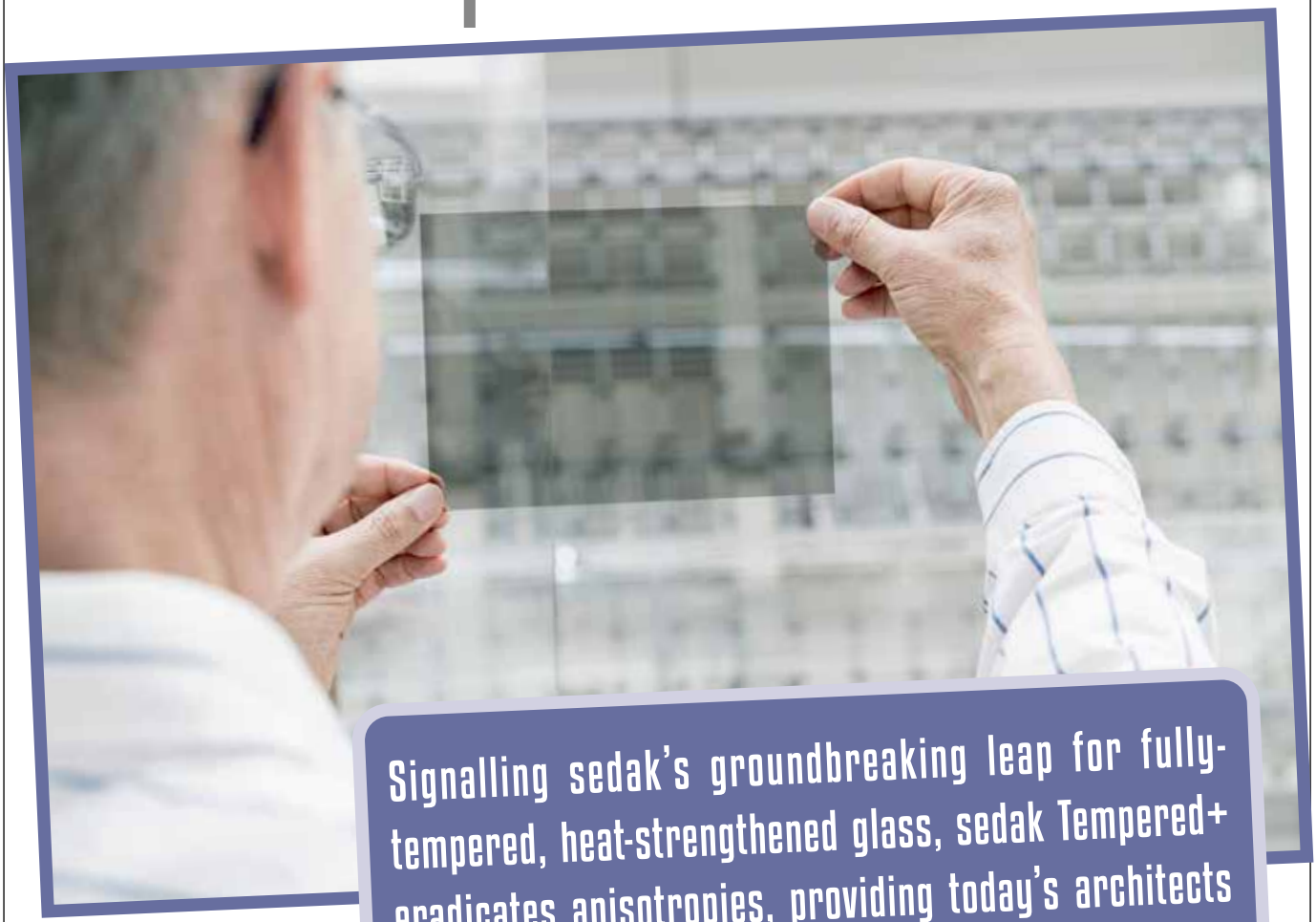
SEDAK launches first tempered glass without anisotropies



Signalling sedak's groundbreaking leap for fully-tempered, heat-strengthened glass, sedak Tempered+ eradicates anisotropies, providing today's architects with superior optical quality - independent of lighting conditions. Poised to set new industry standards, the patented tempering process is especially beneficial for multilayer laminates.

A recent unveiling of sedak's latest innovation saw the leading glass manufacturer showing off its sedak Tempered+. This groundbreaking advancement represents a

new era in fully-tempered, heat-strengthened glass - which is characterised by a complete absence of anisotropies. Employing a revolutionary tempering process, the company now presents customers, architects, and developers with tempered glass that boasts superb optical qualities - regardless of viewing angle or lighting conditions.

WHEN RESEARCH PAYS OFF

Expressing the company's unwavering commitment to meeting the evolving demands of architectural and building design, Kevin Berni, Head of Sales at sedak said: "Among the demands we must face is the eradication of anisotropies. Here we have invested significantly in our research and development efforts to eliminate such optical anomalies that occur during tempering. Today, we are setting new benchmarks in the world of glass. Indeed with sedak Tempered+ we have taken the tempering process to new levels, which also realises the ambitions of architects, namely heat-treated glass that's free of the disruptive presence of anisotropies. That consigns the era of rainbow patterns to the past. Instead, pattern-free tempered glass is the current reality."

ERADICATING ANISOTROPIES

Tempered glass holds a pivotal role in architectural design, given that thermal toughening transforms glass from a brittle, fragile material into one of strength and resilience. However that comes with the drawback of anisotropies. Known as double refraction, this phenomenon arises due to induced thermal stress - manifesting as a shimmering effect within the glass (commonly referred to as interference colour). In stark contrast to conventional tempered glass, which frequently exhibits noticeable

degrees of visible anisotropy, sedak's Tempered+ stands apart as entirely free from anisotropic effects.

Fritz Schlögl, Head of Research and Development at sedak, elaborated on this groundbreaking achievement: "Anisotropies in glass are typically deemed inevitable. Nevertheless, that risk can be mitigated with a well-crafted furnace programme. Through our patented tempering process, we have succeeded in minimising this effect to negligible levels. It's nothing short of revolutionary, particularly in the context of multilayer laminates, where the effect tends to compound. With sedak Tempered+ the presence of anisotropies has been reduced to a minimum."

TEMPERING WITH EXCELLENCE

Much like conventional tempered glass, sedak Tempered+ undergoes the standard process of heating the glass to a high temperature, typically around 640°C (1,184°F), followed by rapid cooling using air fans. Through cutting-edge manufacturing techniques, sedak Tempered+ continues to meet all the technical requirements expected of tempered glass, thus adhering to industry standards whilst delivering both exceptional clarity and optical quality. Available for both fully-tempered and heat-strengthened glass, sedak Tempered+ is signals a remarkable advancement in the world of architectural glass solutions.

sedak GmbH & Co. KG

sedak

Einsteinring 1
86368 Gersthofen - GERMANY
Tel.: +49-821-2494-784
Fax: +49-821-2494-777
E-mail: marketing@sedak.com
www.sedak.com