

Z:A

zawód: architekt

marzec – kwiecień
2021

78

TEMAT WYDANIA

→ Materiały i technologie

W NUMERZE

Szkła cięcie, gięcie

Szymon Piróg

Konstrukcje pachnące żywicą

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Ku szczytom innowacji

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Metalowy zawrót głowy

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Architektura kamieniem się toczy

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egzemplarz bezpłatny dla członków IARP

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ARCHITEKTÓW
RZECZYPOSPOLITEJ
POLSKIEJ

INNOWACYJNE DACHY I FASADY ORAZ MATERIAŁY ELEWACYJNE

TEKST I ZDJĘCIA: TEMME OBERMEIER GMBH

At Temme // Obermeier, we understand the importance of design collaboration and how proposing solutions in the early stages of a project can prevent unexpected challenges and unforeseen costs later in the build. Our experienced in-house “turnkey” teams strive to balance good design with collaborative relationships to meet the needs of our clients. We are at your side from the design concept stage, structural engineering challenges through to on-site management and installation.

PERFECT MATERIAL

We balance good design with collaborative teamwork that meet the needs of our clients. ETFE (ethylene tetrafluoroethylene) is the perfect transparent architectural membrane that can be tailored to meet your specific project requirements whether you are building a bespoke atrium or a world class stadium. ETFE membranes are very flexible and can be used in single or multi-layer forms depending on the use of the building and/or thermal requirements. Multi-layered “cushion” ETFE systems are filled with a constant air supply to improve thermal insulation. It is possible to fine tune the average weighted U-value of the overall façade or roof surface by adjusting the ETFE surface to profile ratio or the number of layers. Also, by changing the number of layers of foil can have a massive impact on the overall thermal performance. U-values ranging from 1.2 W/(m²k) to 2.9 W/(m²K) are possible with five-layers and two layers respectively. Subtle modifications to the design can improve on these values even further whether simply tweaking a profile selection or providing engineering expertise to design the optimal supporting structure. Other advantages include:

Other advantages include:

- experienced in-house “turnkey” teams;
- flexible design opportunities for architects to fit every budget;
- durable and light-weight transparent materials
- soft acoustic properties
- slow life-cycle costs compared to similar glazed systems
- energy efficient and sustainable structures



Galerija Belgrade, Serbia.



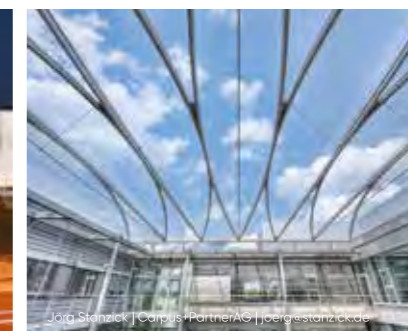
Rynek Łazarski, Poznań; proj. arch. Jacek Bulat.

- protection against the rain, sun and wind;
- increased owner and occupier satisfaction;
- fire certification for Poland.

TURNKEY INNOVATION

ETFE offers vast design possibilities, however, it is important to understand the basics. We are on hand to help you get the maximum benefit from your building, whether it is advice on g-values, lighting or how to improve the thermal performance while profiting from lower operating costs. Temme // Obermeier is already active in Poland and we are on track to complete our first project, the new marketplace canopy at Rynek Łazarski square in the heart of Poznan ready for the coming summer. ●

Temme/Obermeier
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Innowacyjne elastyczne pokrycie dachowe oraz fasady ETFE

Nasze wieloletnie doświadczenie w rozwiązywaniu złożonych problemów inżynierskich pozwala na bezproblemową adaptację lekkiej membrany ETFE do wszystkich form konstrukcyjnych, umożliwiając tworzenie zrównoważonych projektów.

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