

New membrane roofs in Meppen and Düsseldorf



"The latest membrane roofs from [Temme // Obermeier](#) show how varied construction with membranes is. On the one hand in Düsseldorf at the Messe South, the membrane canopy combines design and functionality while the Meppen open-air stage focuses on community spirit and functionality", the company says.



The roof, which weighs a total of approx. 1,000 tons, forms a pointed triangle of 90 whole and 9 half rhombic elements.

Picture: Temme//Obermeier

Temme // Obermeier has been awarded the contract to participate in the construction of the [New Messe South exhibition center in Düsseldorf](#). Specifically, this involves the construction of a steel roof weighing a total of 1,000 tons, which forms an acute triangle of 90 rhombs and 9 half-rhomb-shaped elements. The leading architectural office [sop slapa oberholtz pszczutny architects](#) decided on a honeycomb structure.

According to the company, these rhomboid elements require absolutely precise detailing. The translucent roofing consists of an upper layer of PTFE glass fabric and the lower layer of PVC / PES mesh and is illuminated by LED lights. Construction started in spring 2020 and despite the acute corona situation, the construction work was completed on time and successfully.

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Open-air stage Meppen

The PTFE/glass membrane roof covers an area of almost 2,200 sqm and thus protects the actors and up to 35,000 visitors per year. [Temme // Obermeier](#) was commissioned by the city of Meppen to complete the design and installation of the "well-formed roof construction". The shapely and expressive material of the PTFE/glass membrane is particularly suitable for this. This membrane is at the same time "soft" and thus guarantees optimal acoustics; it also guarantees glare-free daylight incidence.

The new construction of this roof construction is a strong investment in the future of the community. Nevertheless, it was important to preserve the unique characteristics of open-air stages - and [Temme // Obermeier](#) succeeded. The new roof construction offers protection from rain and sun, and also guarantees a clear view of the stage with the adjacent forest in the background.



*The roof construction combines aesthetics and functionality and offers protection from rain and sun.
Picture: Temme//Obermeier*

According to the company, another advantage of this kind of membrane design is the high efficient use of construction material. The membrane roof is carried by inconspicuous steel cables, which are attached to steel pasts that are as small as possible. Only about 75 tons of steel were used for the pendulum supports and the built-in parts. (STADIAWORLD, 11.11.2020)

Homepage: [Temme // Obermeier](#)