



About FLEXXODOMER

The Flexxodomer Double Membrane Roof is an evolved development on the generally applied airborne dual-layer membrane roof in the biogas industry available in diameters upto $\varnothing 45$ meters.

The well-known half-round shape combines a maximum flexible gas storage volume with an optimized shape for external influences such as wind and snow. We make your project specific design based on our basic design by use of design- and stress calculations in 3D CFD computer techniques and detail your roof in 3D in SolidWorks. With each roof you will receive a roof specific static calculation with all relevant data.

The obtained forms are digitally cut in on our CNC cutter to realize the unique cutting patterns. With the latest high frequency and thermal welding techniques the inner and outer roof are produced and assembled as two separate membranes to enable eventual separate changing of a membrane.

Frequent internal quality controls ensure the desired quality and the long lifetime of your premium roof.

Our experienced installation teams arrive at your location and assemble the Flexxodomer on our silo and can execute optional gas tightness tests for you.

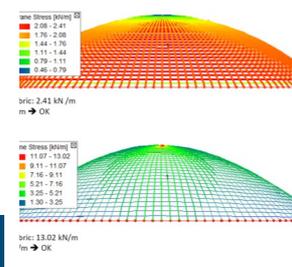
In combination with our Flexxovalve over-and under pressurevalve you have a long-term eye-catcher on your biogas project.





Advantages Flexxodomer:

- High-tech membrane materials, standard 900 g/m² and 4200/4000 N/5 cm, with low gas permeability and good UV resistance
- Low silo loading forces due to multi-dimensional design and bi-directional elongation correction
- Internal anti-condensation strip serving to prevent leakage of liquid condensing on the silo wall
- Designed in standard execution for operation pressures of up to + 3.5 mbar and short-term peaks of up to + 10.0 mbar. Higher pressures on request
- In combination with the Flexxvalve a standard lifetime warranty of 5 years
- Standard support construction designed for extreme snow load of up to 85 kg/m² with desulfurization net assembled on the full silo diameter
- Standard snow and rain deflector skirt on the external outer circumference
- Each roof is supplied with a statical calculation, operation manual and CE declaration



About FLEXXOLUTIONS

Flexxolutions has a broad experience in development, producing and assembling innovative textile solutions for covering and storage systems for gases, liquids and solids. The addition of our subscript "Innovators in technical textile products" explains our ultimate strength. This is the innovative design of products and customer-specific engineering, production and installation of covering and storage systems as silo roofs in normal and gas-tight execution, airborne double membrane roofs serving the biogas industry and storage both in the form of pillow tanks liquids as water and high-quality bags for storage of manure, gases and combinations thereof. Besides this range of products we also designed and supply innovative (patented) disinfections mats, flexible solid storage silo's, truckliners and products for temporary refugee camps as collapsible water kits, toilets and showers. All required disciplines in terms of design (Solidworks 3D), tailoring (CNC cutting) and welding (high frequency and thermal) we have in house. Because we have all of these disciplines in house we can make your system in the shortest possible time in relation to quality, design, production and assembly.

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FLEXXOLUTIONS
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