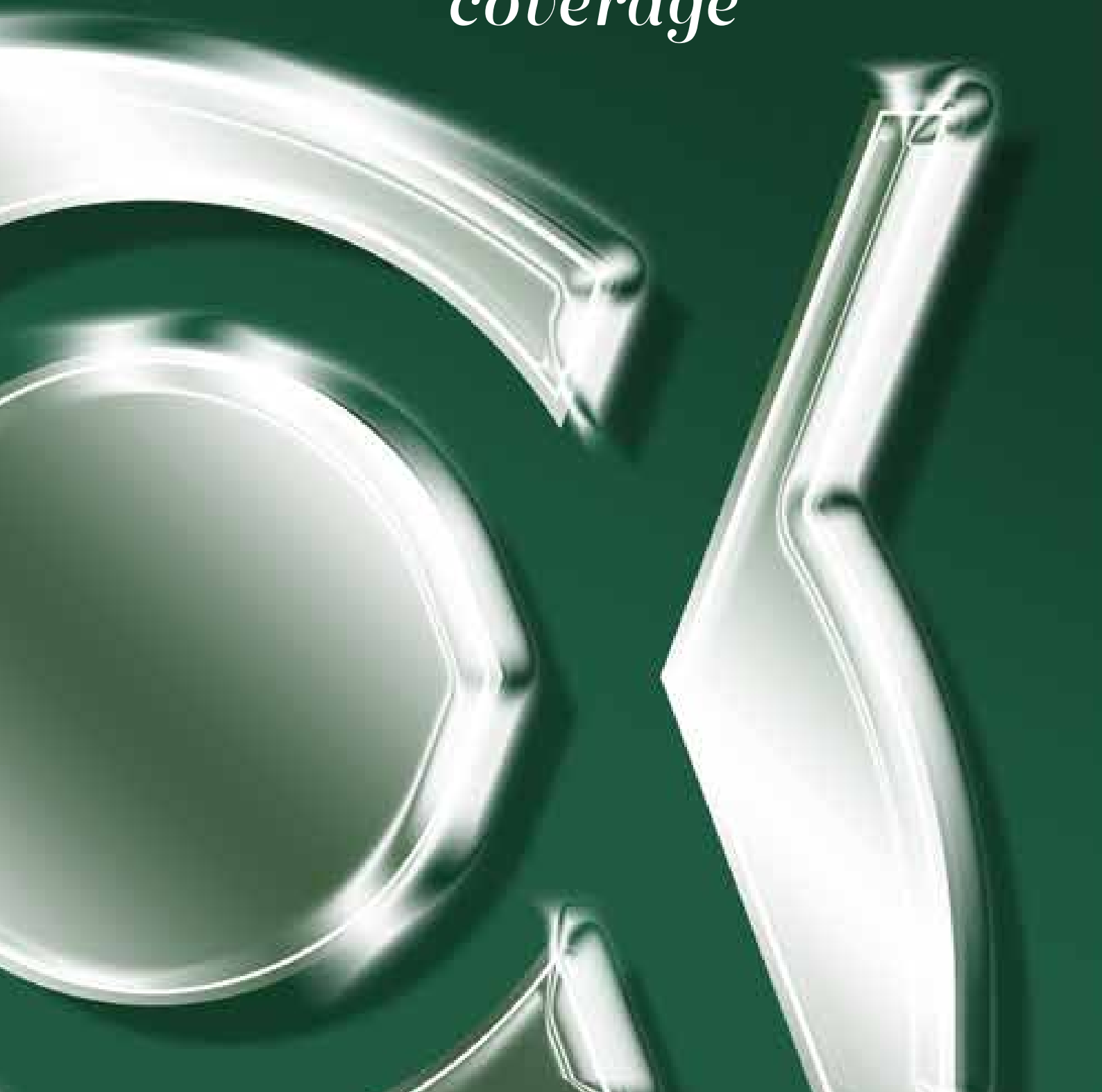




ALFA

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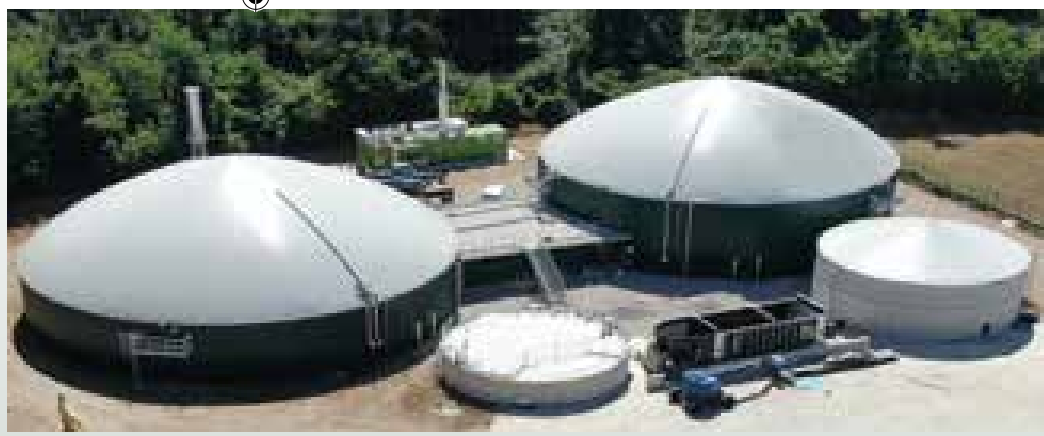


# Alfa Ingenious Coverage

The new brand of Alfa Teloni.



## Gas-tight coverages for biogas and biomethane



Alfa Ingenious Coverage is the partner of the most important manufacturers of biogas and biomethane plants worldwide. It uses AISI 316 fixing systems. It uses ATEX-certified low power consumption blowers. It uses gas-measurement systems and, upon request, over-under pressure valves.



### High strength structure

Alfa Teloni installs treated belts for biogas. The fixing material used is exclusively AISI 316 stainless steel, a guarantee of long-term reliability.

## Storage tank coverage



Cylindrical, rectangular and elliptical shaped. Structure formed by a central pillar and brackets in Inox 316. Polyester radial straps treated for slurry. They prevent the accumulation of rainwater inside the tank and its subsequent disposal. They are anti-odour and reduce the emission of ammonia, methane, and carbon dioxide, which is mandatory for building new tanks. They are in accordance with the EU Directive 2008/1 EC.



### Tensioning inside the tank

Alfa Ingenious Coverage eliminates vibrations by increasing the traction of the PVC coverage. It also avoids rubbing with the concrete tank edge.



### Long-Life Weldings

Alfa Ingenious Coverage utilises only 60 mm HF weldings, a technique that does not alter the physical characteristics of PVC.

# "GOS" Double membrane gas-storage system

GOS (Gasholder On Slab ) of Alfa Ingenious Coverage is a double membrane gas-storage system that can be fixed directly on a reinforced concrete slab placed on the ground, above a digester or in other convenient locations (or in other conveniently placed locations).

Consists of an outer membrane (MEG), an inner membrane (MIG), and a bottom membrane (MFG).

All membranes are made of PVC-coated polyester on both sides, with the material category specifically selected for their respective function and produced in the Alfa Ingenious Coverage factory , according to the most advanced standards and with full internal control of the supply chain.

An insufflation system continuously pushes air into the chamber, between the two membranes ("Air Gap"), keeping the Outer Membrane at constant pressure and

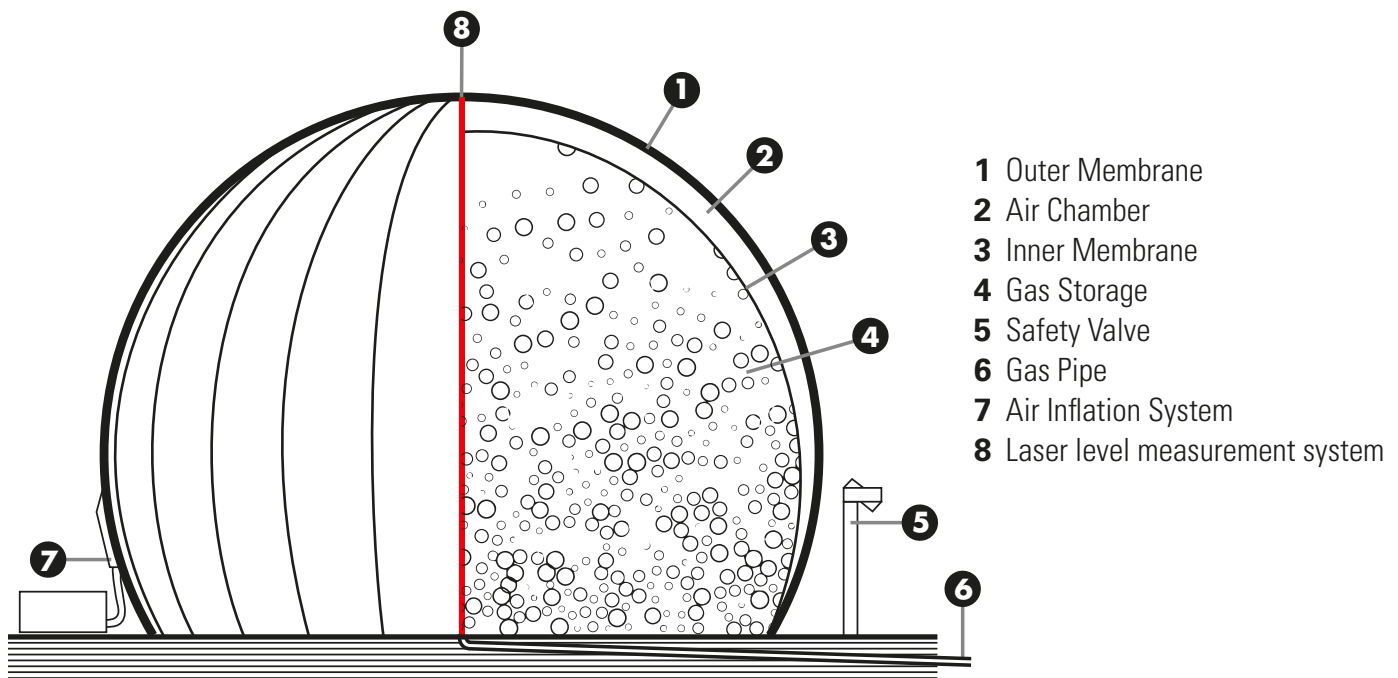
thus granting stability to the system in the face of typical environmental disturbances, such as wind or snow. The Inner Membrane acts as a real accumulator of the gas, under pressure to allow its capture (the capture of the gas).

The measurement of the gas level takes place by measuring the height variation of the Inner Membrane through a laser detector placed at the apex of the Outer Membrane.

The membranes are held at the base by a circular system of flanges, fixed to the reinforced concrete slab, with relative gaskets to ensure gas tightness.

The system is equipped with a safety valve in case of accidental overpressure events.

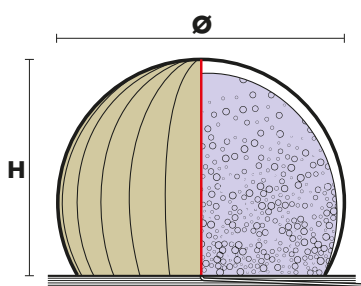
Alfa Ingenious Coverage produces GOS systems capable of managing pressures of up to 50 mBar.



- 1 Outer Membrane
- 2 Air Chamber
- 3 Inner Membrane
- 4 Gas Storage
- 5 Safety Valve
- 6 Gas Pipe
- 7 Air Inflation System
- 8 Laser level measurement system

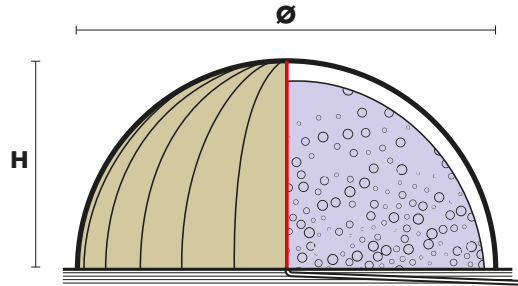
## 3/4 SPHERE

Ø (m)	H (m)	V (m³)
12	9,3	700
15	11,3	1.400
18	13,7	2.400
20	14,8	3.200
22	16,0	4.500
24	18,3	6.000
26	20,0	7.600
28	21,3	9.500
30	23,0	11.500
32	24,3	14.000
34	25,7	16.700



## 1/2 SPHERE

Ø (m)	H (m)	V (m³)
12	6,5	400
15	8,0	900
18	9,5	1.500
20	10,5	2.100
22	11,6	2.700
24	12,5	3.600
26	13,5	4.600
28	14,5	5.800
30	15,2	7.000
32	16,8	9.500
34	17,8	10.500



alfa teloni  
COPERTURE

BIOGAS  
BIOMETANO  
VASCHE DI  
STOCCAGGIO



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Our post -start-up assistance and maintenance service allows us to ensure highly professional interventions on both our creations and the modernisation of other manufacturers', improving performance characteristics in full respect of the environment.



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