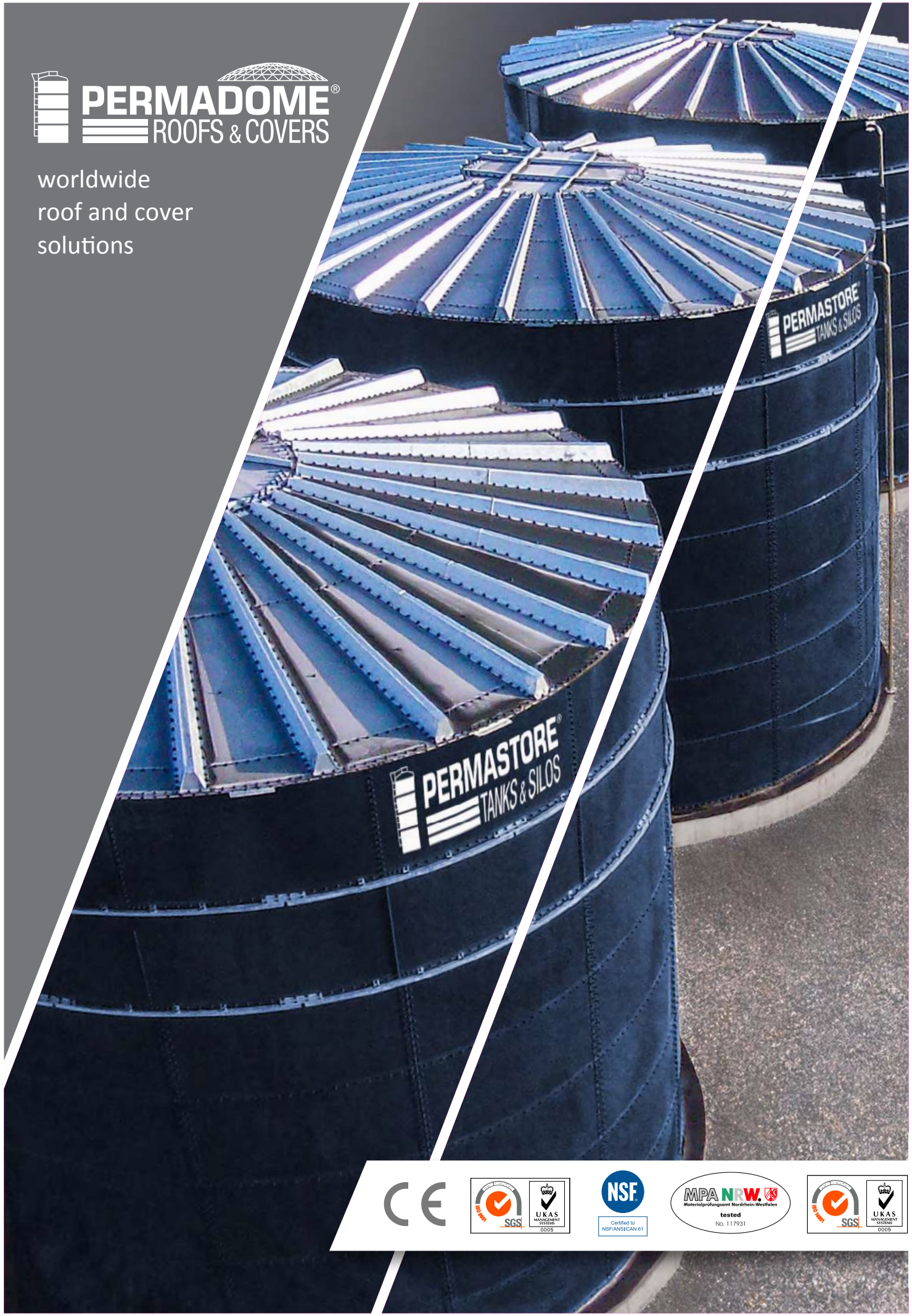




worldwide  
roof and cover  
solutions



# ≡ The Company

PERMADOME® is proudly brought to you by Permastore Limited, a company with over 60 years' experience and the technical leader in the design, engineering, manufacture and supply of tanks and silos worldwide.

Permastore has installed many thousands of structures in over 110 countries globally. Permastore offers a complete range of diameter and height options with storage capacity solutions exceeding 50,000 m<sup>3</sup> (13,200,000 US Gallons).

Whatever your specification is, there is a PERMADOME® solution which will be suitable to meet your requirements.

- ISO 9001:2015 - Accreditation of quality standards to guarantee Customer satisfaction.
- ISO 14001: 2015 - An environmental management systems certified Company
- Engineering Design - To ensure that all roofs and covers interface with the tank or silo structure.
- In-house Contract Management - This provides reassurance that all structures arrive on schedule and are fit for purpose.
- Technical Support - An experienced team that interacts with our Customer base to ensure Customer demand is met.

## Quality

Quality is a philosophy enshrined in Permastore's procedures. Permastore has earned this reputation by dedication to the highest quality with fully independent auditing of Company Quality Standards and product testing since 1986. Choosing PERMADOME® Roofs and Covers is the right choice as it assures you of the same high quality associated with our PERMASTORE® brand.

## Installation

All our roofs and covers are supplied and installed through local distributors and are constructed in accordance with detailed construction guides by trained crews to give rapid and high quality completion on-site. This gives the customer peace of mind that the build will be "right first time" in local conditions.

PERMADOME® Roofs and Covers can be installed on new PERMASTORE® tanks and silos as well as existing structures including Glass-Fused-to-Steel, concrete, welded, bolted epoxy, stainless steel or galvanised tanks.\*

\* Subject to a full design review of existing structures

# ≡ PERMADOME® Roof & Covers

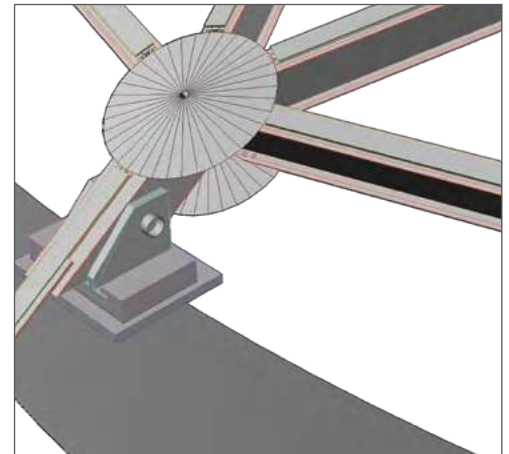
## Geodesic Dome Roof

The Aluminium Geodesic Dome Roof is an innovative modular self-supporting structure which perfectly complements PERMASTORE® containment solutions, in many cases eliminating supporting construction costs.

The low weight of the aluminium dome roof is a decisive cost advantage designed to fit onto new and existing tanks often without the need to be reinforced.

This solution provides maximum durability and minimum cost for maintenance and provides a suitable means of odour control.

Our Geodesic Dome utilises an intelligent sealing system designed to allow rapid construction which functions reliably in all types of construction conditions, making it undoubtedly your best choice for effective weather protection.



## Tapered & External Beam Roofs

Tapered and External Beam Roofs can be utilised for an extensive range of applications from drinking water to farm biogas. As the technical experts in Glass-Fused-to-Steel technology, our Tapered Beam and External Beam Roofs with Glass-Fused-to-Steel infill panels are highly corrosion resistant making them a viable solution for a range of harsh environments and demanding applications. As an alternative, stainless steel infill panels can also be offered.

Our External Beam Roof is suitable for use with a variety of mixers. All Tapered and External Beam Roofs are suitable for use on pressurised structures and provide a suitable option for odour control.



For all your roofing applications choose a quality PERMADOME® solution

## Trough Deck Roof

The Trough Deck Roof is both a versatile and economical roof solution.

This roof type, made of profiled mill finish aluminium roof panels supported by a galvanised coated mild steel support structure, is suitable across a wide range of applications. These include drinking water and process water dependent upon local legislative requirements.

This cost effective roofing solution can be used to reduce contamination of drinking water tanks.



# Single & Double Membrane Dome Roofs

Single and Double Membrane Roofs are the well-established solution for use in anaerobic digestion processes.

Single membrane roofs can be used in less demanding applications and consist of a central column supported fabric roof that is fixed to the tank wall. They are often utilised for odour control.

Double membrane roofs provide a durable cost effective solution for anaerobic digestion and biogas applications. The outer membrane remains permanently inflated while the inner membrane inflates and deflates in proportion to biogas production therefore making them a suitable option for pressurised applications.



PERMADOME® combining engineering design, quality manufacture and over 60 years' technical experience within the containment solution industry

# PVC Cover

The PVC Cover solution utilises a modular aluminium frame system to support a tensioned PVC outer membrane skin.

PVC Covers are a versatile roofing solution suitable for a wide range of applications including, agricultural, drinking water, sewage treatment and industrial effluent.

PVC Covers provide an excellent odour control barrier and as they are a clear span dome structure without any supporting central posts, they offer a cost effective solution for a wide range of applications.





Geodesic Dome Roof – Costa Rica



Tapered Beam Roof – Brazil



External Beam Roof – Anaerobic Digestion & Biogas



Trough Deck Roof – Drinking Water



Double Membrane Dome Roof – Sweden



PVC Cover – Spain

## Application Guide

For complete integrity of design and construction PERMADOME® has a complete range of roofs and covers to match your requirements:

|  | Geodesic Dome | Tapered & External Beam | Trough Deck | Single & Double Membrane | PVC Cover |
|--|---------------|-------------------------|-------------|--------------------------|-----------|
| Drinking Water                           | ✓             | ✓                       | ✓           |                          | ✓         |
| Municipal Sludge Storage                 | ✓             | ✓                       |             |                          | ✓         |
| Municipal Sludge Treatment               | ✓             | ✓                       |             |                          | ✓         |
| Industrial Effluent Processing/Treatment | ✓             | ✓                       |             |                          | ✓         |
| Process Water                            | ✓             | ✓                       | ✓           |                          | ✓         |
| Dry Bulk Solid Storage                   | ✓             | ✓                       |             |                          |           |
| Municipal Mesophilic Digestion           |               | ✓                       |             | ✓                        |           |
| Thermophilic Digestion                   |               | ✓                       |             | ✓                        |           |
| Slurry                                   |               |                         |             |                          | ✓         |
| Farm Digestion                           |               | ✓                       |             | ✓                        |           |

Note: Consult with Permastore for suitability for specific applications. All applications are subject to concentration and temperature considerations.



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