

Design Life of PERMASTORE[®] Glass-Fused-to-Steel Tanks

Permastore Ltd Glass-Fused-to-Steel structures have been utilised extensively for the storage and treatment of drinking water, agricultural feed crops and animal waste, industrial effluents and municipal sewage. Our structures have proven to be reliable and to provide cost effective containment solutions world-wide.

In 2000 we undertook a detailed Design Life review of PERMASTORE[®] Glass-Fused-to-Steel tanks and silos and determined that our products are suitable for a minimum design life in excess of 30 years. Our evaluation included the experience we have accrued over a period extending over 40 years in association with the evolution of the design, third party assessment and an ongoing commitment to a programme of continuous product development and improved quality. The conclusion of this evaluation provides a sound basis for a minimum 30 year Design Life compliant with ISO 15686 parts 1, 2 & 3.

It is also important to differentiate between the terms 'Design Life' and 'Service Life'

- ◆ Design Life is the service life intended by the designer.
- ◆ Service Life is the period of time after installation during which a building or its parts meets or exceeds the performance requirements.

The expected Service Life should therefore be equal to or greater than the Design life.

The earliest Glass-Fused-to-Steel tanks supplied for Industrial/Municipal applications have a proven service history of at least 40 years and therefore it is reasonable to conclude that PERMASTORE[®] Glass-Fused-to-Steel tanks will provide a Service Life in excess of 50 years.

The evidence is that PERMASTORE[®] products are equal to or significantly better than any other containment solutions currently available. Glass-Fused-to-Steel tanks provide well proven, cost effective, readily adaptable and easily maintainable storage solution with an established performance pedigree.

Curtis D Coe, C.Eng., MCIWEM, MICE
Engineering Director
Permastore Ltd

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