INTERSTITIAL SPACE MONITORING OF 'GLASTEEL II' CONTAINMENT SYSTEM UNDERGROUND TANKS

Glasteel steel tanks are a combination of a steel primary tank with a fiberglass outer shell.

The fiberglass shell has a dual function:

- provides secondary containment for the steel primary tank
- Isolates primary tank from exposure to acid/alkaline ground conditions, extending the primary tank life.

The tank is manufactured with a separation space between the steel primary tank and the fiberglass outer shell. This space is known as the interstitial space and is normally monitored using a vacuum system rather than a wet liquid monitor (used on double wall fiberglass tanks).

An interstice vacuum is factory set before the tank leaves Fibretank Systems and requires the client to monitor the vacuum say monthly to ensure the integrity of the system, a break in the inner or outer walls will cause loss of vacuum.

To facilitate client monitoring the tank is factory fitted with a valve and oil fitted vacuum gauge.

If the tank is fitted with a manway riser arrangement the gauge will be in the tank top adjacent to the manway. If a direct bury, the tank will be supplied with an extension to enable monitoring from a street base or equivalent.

Further information on leak detection of secondary containment (jacketed) tanks can be obtained from www.ftstanks.com in the technical section.